Fact Sheets Defence & Law Enforcement



Preface

We are happy to present you our new reference book 'Fact Sheets Defence and Law Enforcement'. It contains detailed information regarding RUAG Ammotec's product range.

We try to keep the data free from errors. However, should you find a mistake please report it to the Product Management.

The headstamps and markings shown on the pictures are for product identification only and do not match the real ones.

Technical specification and numerical data are given for information only and are of no contractual nature.

We hope this reference book is of great value to you.

Best regards, the Product Management Team

Thun, February 24, 2014

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| | .338 Lapua Mag. SWISS P Target 19.4 g / 300 gr .338 Lapua Mag. SWISS P Styx Action 16.0 g / 247 gr | 94 95 |
| | .338 Lapua Mag. SWISS P Target 16.2 g / 250 gr | 93 94 |
| | .338 Lapua Mag. SWISS P Ball 16.3 g / 251 gr | 92 |
| | .300 Win. Mag. SWISS P Tactical 12.1 g / 186 gr | 91 |
| | .300 Win. Mag. SWISS P Armour Piercing 12.7 g / 196 gr | 90 |
| | .300 Win. Mag. SWISS F Styx Action 12.8 g / 198 gr | 89 |
| | .300 Win. Mag. SWISS P Target 13.0 g / 200 gr .300 Win. Mag. SWISS P Target 14.3 g / 220 gr | 87 88 |
| | .300 Win. Mag. SWISS P Ball 11.4 g / 176 gr | 86 97 |
| | .300 Whisper SWISS P Final 13.0 g / 200 gr | 84 |
| | .300 Whisper SWISS P Final 13.0 g / 200 gr | 83 |
| | .300 Whisper SWISS P Target 14.3 g / 220 gr | 82 |
| | .308 Win. SWISS P Subsonic Final 13.0 g / 200 gr | 81 |
| | .308 Win. SWISS P Subsonic 13.0 g / 200 gr | 79 80 |
| | .308 Win. SWISS P Tactical 10.6 g / 163 gr .308 Win. SWISS P Subsonic 13.0 g / 200 gr | 78 79 |
| | .308 Win. SWISS P Armour Piercing 12.7 g / 196 gr | 77 70 |
| | .308 Win. SWISS P Final SR 8.4 g / 130 gr | 76 |
| | .308 Win. SWISS P Styx Action 10.8 g / 167 gr | 75 |
| | .308 Win. SWISS P Target 11.3 g / 175 gr | 74 |
| | .308 Win. SWISS P Target 10.9 g / 168 gr | 73 |
| | .223 Rem. SWISS P Armour Piercing 4.1 / 63 gr .308 Win. SWISS P Ball 11.4 g / 176 gr | 70 72 |
| | .223 Rem. SWISS P Final SR 3.4 g / 52 gr | 69 |
| | .223 Rem. SWISS P Styx Action 4.5 g / 69 gr | 68 |
| | .223 Rem. SWISS P Target 4.5 / 69 gr | 67 |
| | .223 Rem. SWISS P Ball 4.1 g / 63 gr | 66 |

Pistol and Submachine Gun Ammunition



Together ahead. RUAG

9x19 FMJ 8.0g / 124gr

Cost effective CIP-approved versatile round

Preserves the weapon's servicelife

Trusted by Law Enforcement & Armed Forces worldwide



Application

The FMJ round is an excellent value for a training and service round with high reliability and good accuracy.

All components are produced in-house and perform seamlessly together for perfect functioning in all common types of pistol

| Cartridge | 9x19 / 9mm Luger |
|---------------------|-----------------------------------|
| projectile | FMJ, 8.0 g / 124 gr |
| projectile material | Cu-coated steel jacket, lead core |
| primer / propellant | SINOXID / double base powder |
| case material | CuZn - alloy |
| cartridge weight | 12.3 g |

| Performance | | |
|-----------------------|---------------------|---------------|
| term of reference | C.I.P. | |
| mean chamber pressure | max. 2 350 bar | (21°C) |
| muzzle velocity | 380 m/s (1 247 fps) | 200 mm barrel |
| muzzle energy | 575 J | |
| accuracy at 50 m | H; V ≤ 200 mm | |

| Packaging50 rds/cardboard box, 1 000 rds/cardboard box |
|--|
|--|

9x19 FMJ SX 8.0 g / 124 gr

CIP-approved round minimises exposure to lead

Reliable in extreme environmental conditions

Preserves the weapon's service life

Trusted by Law Enforcement & Armed Forces worldwide





Application

The FMJ SX with 8.0 g bullet is the top-selling FMJ round from RUAG Ammotec and offers outstanding reliability. It is used both for training and in theatre worldwide.

Reducing the shooters exposure to pollutants is an essential concern for RUAG Ammotec. Due to the heavy metal-free SINTOX* primer and the totally encapsulated bullet core, no pollutants are released near the shooter. This is not only important when shooting indoors, but also outdoors where shooters may face head- or crosswinds.

All components are produced in-house and perform seamlessly together for perfect functioning in all common types of pistol.

| Cartridge | 9x19 / 9mm Luger |
|---------------------|--|
| projectile | FMJ, 8.0 g / 124 gr |
| projectile material | totally encapsulating tombac jacket, lead core |
| primer / propellant | SINTOX® - non toxic / double base powder |
| case material | CuZn - alloy |
| cartridge weight | 12.3 g |

| C.I.P. | |
|---------------------|--|
| -30°C to +52°C | |
| max. 2 350 bar | (21°C) |
| 370 m/s (1 214 fps) | 150 mm barrel |
| 545 J | |
| 100% radius ≤ 50 mm | |
| | -30°C to +52°C max. 2 350 bar 370 m/s (1 214 fps) 545 J |

| Packaging | 50 rds/cardboard box, 1 000 rds/cardboard box |
|-----------|---|
|-----------|---|

9x19 FMJ SX 7.5 g / 115 gr

Reduced recoil for faster target reacquisition

CIP-approved round minimises exposure to lead

Reliable in extreme environmental conditions

Preserves the weapon's service life

Trusted by Law Enforcement & Armed Forces worldwide





Application

The FMJ SX with 7.5 g bullet has reduced recoil allowing faster target reacquisition.

Reducing the shooters exposure to pollutants is an essential concern for RUAG Ammotec. Due to the heavy metal-free SINTOX° primer and the totally encapsulated bullet core, no pollutants are released near the shooter. This is not only important when shooting indoors, but also outdoors where shooters may face head- or crosswinds.

All components are produced in-house and perform seamlessly together for perfect functioning in all common types of pistol.

| 9x19 / 9mm Luger |
|--|
| FMJ, 7.5 g / 115 gr |
| totally encapsulating tin plated steel jacket, lead core |
| SINTOX® - non toxic / double base powder |
| CuZn - alloy |
| 11.9 g |
| |

| C.I.P. | |
|---------------------|--|
| -30°C to +52°C | |
| max. 2 350 bar | (21°C) |
| 380 m/s (1 247 fps) | 150 mm barrel |
| 540 J | |
| H ; V ≤ 200 mm | |
| | max. 2 350 bar 380 m/s (1 247 fps) 540 J |

| Packaging 50 rds/cardboard box, 1 000 rds/cardboard box | |
|---|--|
|---|--|

9x19 FMJ SXF (+P) 8.0 g / 124 gr

Custom marking agent facilitates forensic analysis

+Power for improved weapon performance

Reliable in extreme environmental conditions

Preserves the weapon's service life





Application

The FMJ SXF (+P) has been specifically developed to meet the requirements of the German Technical Guideline for reduced pollutant ammunition.

Reducing the shooters exposure to pollutants is an essential concern for RUAG Ammotec. Due to the heavy metal-free SINTOX* primer and the totally encapsulated bullet core, no pollutants are released near the shooter. This is not only important when shooting indoors, but also outdoors where shooters may face head- or crosswinds.

The marking agent Gadolinium has been added to the primer. This enables forensics to run analyses about the use of the ammunition and determination of the shooting distance.

| Cartridge | 9x19 / 9mm Luger |
|---------------------|--|
| projectile | FMJ, 8.0 g / 124 gr |
| projectile material | totally encapsulating tin-coated steel jacket, lead core |
| primer / propellant | SINTOX*-FORENSIS - non toxic / double base powder |
| case material | CuZn - alloy |
| cartridge weight | 12.3 g |

| Performance | | |
|-----------------------|-----------------------------------|---------------|
| term of reference | TR | |
| temperature range | -30°C to +52°C | |
| mean chamber pressure | max. 2 700 bar | (21°C) |
| muzzle velocity | 350 m/s (1 148 fps) | 100 mm barrel |
| muzzle energy | 490 J | |
| accuracy at 25 m | s _a ≤ 25 mm, 30 rounds | |
| | | |

| Packaging | 50 rds/cardboard box, 1 000 rds/cardboard box |
|-----------|---|
| | |

9x19 LF FMJ SXF (+P) 6.5 g / 100 gr

Lead-free bullet and primer reduce pollution

Reduced wear and strain on the barrel maintains accuracy over the weapon's life

Reliable in extreme environmental conditions

+Power for improved weapons performance

Custom markingagent facilitates forensic analysis





Application

The LF FMJ SXF (+P) has been developed as a training version of the deformation round SECA sharing the same bullet weight and trajectory. However it is also perfect as lead-free service round.

The special design with two interlocking cups ensures consistently high quality.

Reducing the shooters exposure to pollutants is an essential concern for RUAG Ammotec. Due to the heavy metal-free SINTOX* primer and the totally encapsulated bullet core, no pollutants are released near the shooter. This is not only important when shooting indoors, but also outdoors where shooters may face head- or crosswinds.

The marking agent Gadolinium has been added to the primer. This enables forensics to analyse the use of the ammunition and determine the shooting distance

| Cartridge | 9x19 / 9mm Luger |
|---------------------|---|
| projectile | FMJ, 6.5 g / 100 gr |
| projectile material | CuZn - alloy |
| primer / propellant | SINTOX°-FORENSIS - non toxic / double base powder |
| case material | CuZn - alloy |
| cartridge weight | 11.0 g |

| Performance | | |
|-----------------------|---------------------|---------------|
| term of reference | TR | |
| temperature range | -54°C to +52°C | |
| mean chamber pressure | max. 2 700 bar | (21°C) |
| muzzle velocity | 400 m/s (1 312 fps) | 100 mm barrel |
| muzzle energy | 520 J | |
| accuracy at 25 m | s₃ ≤ 25 mm | |

| Packaging | 50 rds/cardboard box, 1 000 rds/cardboard box |
|-----------|---|
| | |

9x19 NATO FMJ 8.0 g / 124 gr

Cost effective NATO-approved versatile round

Preserves the weapon's service life

Excellent value for training and service

Trusted by Armed Forces worldwide





Application

The NATO FMJ is specifically designed to meet all the requirements of Armed Forces.

Special attention was given to ensuring the cartridge's reliability and accuracy in a wide range of environmental conditions.

All components are produced in-house and perform seamlessly together for perfect functioning in all common types of pistol.

| Cartridge | 9x19 / 9mm Luger |
|---------------------|---------------------------------------|
| projectile | FMJ, 8.0 g / 124 gr |
| projectile material | tombac plated steel jacket, lead core |
| primer / propellant | SINOXID / double base powder |
| case material | CuZn - alloy |
| cartridge weight | 12.3 g |

| Performance | | |
|-------------------------------|---|--------------|
| term of reference | МСМОРІ | |
| temperature range | -54°C to +52°C | |
| mean case mouth pressure + 3s | max. 2 850 bar | (21°C) |
| muzzle velocity | 395 m/s (1 296 fps) | 200 mm barre |
| muzzle energy | 620 J | |
| accuracy at 46 m | s ₊ ; s _v ≤ 50 mm | |

| Packaging50 rds/cardboard box, 1 000 rds/cardboard box | |
|--|--|
|--|--|

9x19 NATO FMJ SX 8.0 g / 124 gr

NATO-approved round minimises exposure to lead

Reliable in extreme environmental conditions

Preserves the weapon's service life

Trusted by Armed Forces worldwide







Application

The NATO FMJ SX is specifically designed to meet all the requirements of Armed Forces.

Special attention was given to ensuring the cartridge's reliability and accuracy in a wide range of environmental conditions.

Reducing the shooters exposure to pollutants is an essential concern for RUAG Ammotec. Due to the heavy metal-free SINTOX* primer and the totally encapsulated bullet core, no pollutants are released near the shooter. This is not only important when shooting indoors, but also outdoors where shooters may face head- or crosswinds.

All components are produced in-house and perform seamlessly together for perfect functioning in all common types of pistol.

| Cartridge | 9x19 / 9mm Luger |
|---------------------|--|
| projectile | FMJ, 8.0 g / 124 gr |
| projectile material | totally encapsulating tin-coated steel jacket, lead core |
| primer / propellant | SINTOX® - non toxic / double base powder |
| case material | CuZn - alloy |
| cartridge weight | 12.3 g |
| | |

| Performance | | |
|-------------------------------|---|---------------|
| term of reference | МСМОРІ | |
| temperature range | -54°C to +52°C | |
| mean case mouth pressure + 3s | max. 2 850 bar | (21°C) |
| muzzle velocity | 395 m/s (1 296 fps) | 200 mm barrel |
| muzzle energy | 620 J | |
| accuracy at 46 m | s _H ; s _v ≤ 50 mm | |

| Packaging | 50 rds/cardboard box, 1 000 rds/cardboard box |
|-----------|---|
| | |

9x19 NATO FMJ SX 7.5 g / 115 gr

Reduced recoil for faster target reacquisition

NATO-approved round minimises exposure to lead

Reliable in extreme environmental conditions

Preserves the weapon's service life

Trusted by Armed Forces worldwide







The NATO FMJ SX is specifically designed to meet all the requirements of Armed Forces. The 7.5 g bullet has reduced recoil allowing faster target reacquisition.

Special attention was given to ensuring the cartridge's reliability and accuracy in a wide range of environmental conditions.

Reducing the shooters exposure to pollutants is an essential concern for RUAG Ammotec. Due to the heavy metal-free SINTOX® primer and the totally encapsulated bullet core, no pollutants are released near the shooter. This is not only important when shooting indoors, but also outdoors where shooters may face head- or crosswinds.

All components are produced in-house and perform seamlessly together for perfect functioning in all common types of pistol.

| Cartridge | 9x19 / 9mm Luger |
|---------------------|--|
| projectile | FMJ, 7.5 g / 115 gr |
| projectile material | totally encapsulating tin-plated steel jacket, lead core |
| primer / propellant | SINTOX® - non toxic / double base powder |
| case material | CuZn - alloy |
| cartridge weight | 11.9 g |

| Performance | | |
|-------------------------------|---|---------------|
| term of reference | МСМОРІ | |
| temperature range | -54°C to +52°C | |
| mean case mouth pressure + 3s | max. 2 850 bar | (21°C) |
| muzzle velocity | 405 m/s (1 328 fps) | 200 mm barrel |
| muzzle energy | 615 J | |
| accuracy at 46 m | s _H ; s _v ≤ 50 mm | |
| | | |

| Packaging | 50 rds/cardboard box, 1 000 rds/cardboard box |
|-----------|---|
| | |

9x19 SECA SXF 6.4 g / 99 gr

Most versatile lead-free deformation round

Defined target effect minimises collateral damage

Designed for perfect weapon's feed

Custom marking agent facilitates forensic analysis







Application

The SECA is an all purpose deformation round which has been specifically developed to meet the requirements of the German Technical Guideline for reduced pollutant ammunition.

The special design with two interlocking cups ensures consistently high quality.

The SECA round does not have a traditional hollow-point. The inner cup is pushed back upon impact and makes way for the active area of the hollow-point. This ensures undisturbed deformation and perfect feeding in the weapon.

Additionally, the SECA has minimal deflection when shooting through angled glass, has good penetration on hard targets and will punch a clean hole in a tyre wall causing deflation within a few seconds.

| Cartridge | 9x19 / 9mm Luger |
|---------------------|---|
| projectile | JDP, 6.4 g / 99 gr |
| projectile material | CuZn - alloy |
| primer / propellant | SINTOX*-FORENSIS - non toxic / double base powder |
| case material | CuZn - alloy |
| cartridge weight | 11.0 g |

| Performance | | |
|-----------------------------|-----------------------------|---------------|
| term of reference | TR | |
| temperature range | -30°C to +52°C | |
| mean chamber pressure | max. 2 700 bar | (21°C) |
| muzzle velocity / energy | 400 m/s (1 312 fps) / 510 J | 100 mm barrel |
| accuracy at 25 m | s _a ≤ 25 mm | |
| penetration in 20% gelatine | ≤ 30 cm | |
| energy deposition | max. 60 J/cm | |

| Packaging | 50 rds/cardboard box, 1 000 rds/cardboard box |
|-----------|---|
| | |

9x19 ACTION 4SXF

6.1g/94gr

Most versatile lead-free deformation round

Defined target effect minimises collateral damage

Designed for perfect weapon's feed

Custom marking agent facilitates forensic analysis







Application

ACTION 4 is the most common cartridge in the ACTION line and was specifically developed to meet the requirements of the German Technical Guideline for reduced pollutant ammunition.

All ACTION-bullets are drilled individually from solid material. Metal alloy, heat treatment and the specific hollow-point geometry define the desired effect in the target. The enclosed HP ensures perfect weapon's feed and avoids deterioration of the deformation caused by foreign material such as clothing. Additionally, the ACTION 4 has minimal deflection when shooting through angled glass, has good penetration on hard targets and is able to deflate a tire within a few seconds.

Upon impact with the target, the plastic tip of the ACTION 4 is pushed into the hollow-point and becomes a part of the deformation process. A medical contrast agent in the bullet tip ensures that, should it be torn out, it can be seen in an X-ray.

| Cartridge | 9x19 / 9mm Luger |
|---------------------|---|
| projectile | SHP, 6.1 g / 94 gr |
| projectile material | CuZn - alloy, plastic tip |
| primer / propellant | SINTOX*-FORENSIS - non toxic / double base powder |
| case material | CuZn - alloy |
| cartridge weight | 10.1 g |

| Performance | _ | |
|-----------------------------|-----------------------------------|---------------|
| term of reference | TR | |
| temperature range | -30°C to +52°C | |
| mean chamber pressure | max. 2 700 bar | (21°C) |
| muzzle velocity / energy | 420 m/s (1 378 fps) / 540 J | 100 mm barrel |
| accuracy at 25 m | s _a ≤ 25 mm, 30 rounds | |
| penetration in 20% gelatine | ≤ 30 cm | |
| energy deposition | max. 60 J/cm | |
| | | |

| Packaging | 50 rds/cardboard box, 1 000 rds/cardboard box |
|-----------|---|

9x19 ACTION 5 SXF 6.1 g / 94 gr

Redesigned target effect for enhanced stopping power

Lead-free deformation round

Designed for perfect weapon's feed

Custom marking agent facilitates forensic analysis







Application

ACTION 5 is the ACTION line deformation cartridge with the highest stopping power, particulary designed for special forces such as the GSG 9.

All ACTION-bullets are drilled individually from solid material. Metal alloy, heat treatment and the specific hollow-point geometry define the desired effect in the target. The enclosed HP ensures perfect weapon's feed and avoids deterioration of the deformation caused by foreign material such as clothing.

Upon impact with the target, the plastic tip of the ACTION 5 is pushed into the hollow-point and becomes a part of the deformation process. A medical contrast agent in the bullet tip ensures that, should it be torn out, it can be seen in an X-ray.

| Cartridge | 9x19 / 9mm Luger |
|---------------------|---|
| projectile | SHP, 6.1 g / 94 gr |
| projectile material | CuZn - alloy, plastic tip |
| primer / propellant | SINTOX*-FORENSIS - non toxic / double base powder |
| case material | CuZn - alloy |
| cartridge weight | 10.6 g |
| | |

| Performance | | |
|-----------------------------|-----------------------------------|---------------|
| temperature range | - -30°C to +52°C | |
| mean case mouth pressure | max. 2 300 bar | (21°C) |
| muzzle velocity | 425 m/s (1 394 fps) | 100 mm barrel |
| muzzle energy | 550 J | |
| accuracy at 50 m | s _a ≤ 25 mm, 30 rounds | |
| penetration in 20% gelatine | ≤ 20 cm | |
| energy deposition | max. 75 J/cm | |
| | | |

| Packaging | 50 rds/cardboard box, 1 000 rds/cardboard box |
|-----------|---|
| | |

9x19 HP SX 8.0 g / 124 gr

Cost effective CIP-approved deformation round

Provides maximum stopping power

Custom marking agent facilitates forensic analysis





Application

The HP cartridge is a deformation cartridge with a classic hollow-point bullet design for defined penetration depth and energy transfer and minimal loss of mass.

Reducing the shooters exposure to pollutants is an essential concern for RUAG Ammotec. Due to the heavy metal-free SINTOX* primer and the covered bullet base, no pollutants are released near the shooter. This is not only important when shooting indoors, but also outdoors where shooters may face head- or crosswinds.

All components perform seamlessly together for perfect functioning in all common types of pistol.

| 9x19 / 9mm Luger |
|--|
| JHP, 8.0 g / 124 gr |
| CuZn - alloy, plated jacket; PbSb-alloy core |
| SINTOX [®] - non toxic / double base powder |
| CuZn - alloy |
| 12.5 g |
| |

| Performance | | |
|-----------------------------|-----------------------------|---------------|
| term of reference | C.I.P. | |
| temperature range | -30°C to +52°C | |
| mean chamber pressure | max. 2 350 bar | (21°C) |
| muzzle velocity / energy | 365 m/s (1 198 fps) / 530 J | 150 mm barrel |
| accuracy at 50 m | 100% radius ≤ 100 mm | |
| penetration in 20% gelatine | ≤ 30 cm | |
| energy deposition | max. 60 J/cm | |

| Packaging | 50 rds/cardboard box, 1 000 rds/cardboard box |
|-----------|---|

9x19 AP SX 7.0 g / 108 gr

Provides outstanding penetration on hard targets

Lead-free bullet and primer reduce pollution

Excellent performance in submachine guns







Application

The AP SX is a 9x19 round with high penetration power and good accuracy.

Reducing the shooters exposure to pollutants is an essential concern for RUAG Ammotec. Due to the heavy metal-free SINTOX* primer and the totally encapsulated bullet core, no pollutants are released near the shooter. This is not only important when shooting indoors, but also outdoors where shooters may face head- or crosswinds.

All components are produced in-house and perform seamlessly together for perfect functioning in all common types of pistol.

| 9x19/9mmLuger |
|--|
| solid, 7.0 g / 108 gr |
| CuZn - alloy, tin-plated |
| SINTOX* - non toxic / double base powder |
| CuZn - alloy |
| 11.2 g |
| |

| Performance | | |
|--------------------------|---|--------------|
| temperature range | -20°C to +52°C | |
| mean case mouth pressure | max. 2 600 bar | (21°C) |
| muzzle velocity | 420 m/s (1 378 fps) | 200 mm barre |
| muzzle energy | 615 J | |
| accuracy at 25 m | H ; V ≤ 200 mm, 10 rounds | |
| penetration at 15 m | 8 sheet steel plates (1 mm, separated by 20 mm) | |

| Packaging | 50 rds/cardboard box, 1 000 rds/cardboard box |
|-----------|---|
| | |

9x19 Tracer 7.6 g / 118 gr

Red trace mixture illuminates the flight path Reliable in extreme environmental conditions Excellent performance in submachine guns



Application

The Tracer round leaves a red trace to a range of 100 meters and is suitable for marking targets or as an indicator when the magazine is nearly empty and should be changed.

All components are produced in-house and perform seamlessly together for perfect functioning in all common types of pistol.

| Cartridge | 9x19/9mmLuger |
|---------------------|---|
| projectile | tracer, 7.6 g / 118 gr |
| projectile material | tombac-plated steel-jacket, lead core and trace mixture |
| primer / propellant | SINOXID / double base powder |
| case material | CuZn - alloy |
| cartridge weight | 11.6 g |
| | |

| Performance | | |
|--------------------------|------------------------------------|---------------|
| temperature range | -20°C to +30°C | |
| mean case mouth pressure | max. 2 600 bar | (21°C) |
| muzzle velocity | 420 m/s (1 378 fps) | 200 mm barrel |
| muzzle energy | 670 J | |
| accuracy at 25 m | S _a ≤ 250 mm, 10 rounds | |
| min. trace distance | 100 m | |

| Packaging 50 rds/cardboard box, 1 000 rds/c |
|--|
|--|

9x19 Subsonic FMJ 10.0 g / 154 gr

Provides a minimal accoustic profile to maintain the element of surprise

Heavy bullet yields excellent target effect

Blue marked primer ensures proper selection

Reliable in extreme environmental conditions



Application

The Subsonic FMJ is designed for silenced shooting.

All components are produced in-house and perform seamlessly together for perfect functioning in all common types of pistol.

| 9x19/9mm Luger |
|--|
| FMJ, 10.0 g / 154 gr |
| copper-nickel-coated steel jacket, lead core |
| SINOXID / double base powder |
| CuZn - alloy |
| 14.3 g |
| |

| Performance | | |
|-----------------------|---------------------------|---------------|
| temperature range | -30°C to +52°C | |
| mean chamber pressure | max. 2 350 bar | (21°C) |
| muzzle velocity | 315 m/s (1 033 fps) | 200 mm barrel |
| muzzle energy | 495 J | |
| accuracy at 50 m | H ; V ≤ 250 mm, 10 rounds | |

| Packaging | 50 rds/cardboard box, 1 000 rds/cardboard box |
|-----------|---|
| | |

9x19 Subsonic HPSX 9.5 g / 147 gr

Deformation round with a minimal accoustic profile to maintain the element of surprise

Provides the maximum possible stopping power

Blue marked primer ensures proper selection

Reliable in extreme environmental conditions





The Subsonic HP cartridge is a silenced deformation cartridge with a classic hollow-point bullet design for defined penetration depth, energy transfer and minimal loss of mass.

The reduction of the shooters exposure to pollutants is an essential concern for RUAG Ammotec. Due to the heavy metal-free SINTOX* primer and the covered bullet base, no pollutants are released near the shooter. This is not only important when shooting indoors, but also outdoors where shooters may face head- or crosswinds.

| Cartridge | 9x19 / 9mm Luger |
|---------------------|--|
| projectile | JHP, 9.5 g / 147 gr |
| projectile material | CuZn - alloy jacket, lead core |
| primer / propellant | SINTOX° - non toxic / double base powder |
| case material | CuZn - alloy |
| cartridge weight | 13.8 g |
| | |

| Performance | | |
|--|---------------------|---------------|
| temperature range | -30°C to +52°C | |
| mean chamber pressure | max. 2 600 bar | (21°C) |
| muzzle velocity | 314 m/s (1 030 fps) | 100 mm barrel |
| muzzle energy | 468 J | |
| accuracy at 25 m | 100% radius ≤ 70 mm | |
| penetration in 20% gelatine | ≤ 35 cm | |
| energy deposition | max. 40 J/cm | |
| penetration in 20% gelatine energy deposition | | |

| Packaging | 50 rds/cardboard box, 1 000 rds/cardboard box |
|-----------|---|

9x19 Frangible SX 6.4g / 98gr

Perfect round for tactical CQB training

Ideal fragmentation size minimises ricochet and inhalation risk

Lead-free bullet and primer reduce pollution







Application

The Frangible SX is specially developed for the dynamic training needs of police, military and security staff.

The bullet is made from copper and polymer by injection moulding, is completely lead-free and fully recyclable.

The Frangible SX is particularly suitable for tactical CQB/MOUT training, as the teams can train safely and effectively with maximum realism. The shooting distance can be reduced without risking being hit by backsplashes or ricochets.

All components perform seamlessly together for perfect functioning in all common types of pistol.

| 9x19 / 9mm Luger |
|--|
| frangible, 6.4 g / 98 gr |
| sintered Cu |
| SINTOX* - non toxic / double base powder |
| CuZn - alloy |
| 10.8 g |
| |

| Performance | | |
|-------------------------------|----------------------|---------------|
| term of reference | МСМОРІ | |
| temperature range | -54°C to +52°C | |
| mean case mouth pressure + 3s | max. 2 850 bar | (21°C) |
| muzzle velocity | 430 m/s (1 410 fps) | 200 mm barrel |
| muzzle energy | 590 J | |
| accuracy at 25 m | 100% radius ≤ 100 mm | |
| ideal range | 0.1 - 50 m | |
| | | |

| Packaging | 50 rds/cardboard box, 1 000 rds/cardboard box |
|-----------|---|

9x19 Plastic Blank

Cost effective manoeuvre round Seamlessly integrates with combat simulation training



Application

The Plastic Blank cartridge is non-lethal, has been developed for force on force training and guarantees a safe combat simulation. The Plastic Blank works perfect even under extreme weather conditions and temperature fluctuations.

When used with a blank firing attachment, the weapon will automatically reload.

| Cartridge | 9x19 / 9mm Luger |
|---------------------|---------------------------------------|
| primer / propellant | SINOXID / double base powder |
| case material | CuZn - alloy case with plastic insert |
| cartridge weight | 4.7 g |
| | |
| | |

| Performance | | |
|-------------------|----------------|--|
| temperature range | -20°C to +40°C | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

| Packaging | 50 rds/cardboard box, 2 500 rds/cardboard box | |
|-----------|---|--|
|-----------|---|--|



Together ahead. RUAG

7.65mm Browning FMJ 4.6g / 71gr

Perfect function in all popular pistol-types

Cost effective CIP-approved versatile round

Preserves the weapon's servicelife



Application

The FMJ round is an excellent value for a training and service round with high reliability and good accuracy.

All components are produced in-house and perform seamlessly together for perfect functioning in all common types of pistol

| Cartridge | 7.65mm Browning / 7.65mm ACP / .32 Auto |
|---------------------|---|
| projectile | FMJ, 4.6 g / 71 gr |
| projectile material | Cu-coated tombac jacket, lead core |
| primer / propellant | SINOXID / double base powder |
| case material | CuZn - alloy |
| cartridge weight | XX.X g |
| | |

| Performance | | |
|-----------------------|---------------------|---------------|
| term of reference | C.I.P. | |
| mean chamber pressure | max. 1 600 bar | (21°C) |
| muzzle velocity | 310 m/s (1 017 fps) | 150 mm barrel |
| muzzle energy | 221 J | |
| accuracy at 15 m | 100% radius ≤ 25 mm | |

| Packaging | 50 rds/cardboard box, 1 000 rds/cardboard box |
|-----------|---|
| | |

9mm Browning Short FMJ 6.2g / 95gr

Reduced recoil for faster target reacquisition

Preserves the weapon's service life

Trusted by Law Enforcement & Armed Forces worldwide



Application

The FMJ round is an excellent value for a training and service round with high reliability and good accuracy.

All components are produced in-house and perform seamlessly together for perfect functioning in all common types of pistol

| Cartridge | 9x17/9mm Browning Short / .380 Auto | |
|---------------------|-------------------------------------|--|
| projectile | FMJ, 6.2 g / 95 gr | |
| projectile material | Cu-coated tombac jacket, lead core | |
| primer / propellant | SINOXID / double base powder | |
| case material | CuZn - alloy | |
| cartridge weight | XX.X g | |
| | | |

| Performance | | |
|-----------------------|---------------------|---------------|
| term of reference | C.I.P. | |
| mean chamber pressure | max. 1 350 bar | (21°C) |
| muzzle velocity | 305 m/s (1 000 fps) | 150 mm barrel |
| muzzle energy | 288 J | |
| accuracy at 25 m | 100% radius ≤ 45 mm | |
| | | |
| | | |

| Packaging | 50 rds/cardboard box, 1 000 rds/cardboard box |
|-----------|---|
| | |

9mm Makarov FMJ 6.0g/92gr

Cost effective versatile round designed for pistols and submachine guns

Preserves the weapon's service life

Reliable in extreme environmental conditions



Application

The FMJ round is an excellent value for a training and service round with high reliability and good accuracy.

Special attention was given to ensuring the cartridge's reliability and accuracy in a wide range of environmental conditions.

| 9mm Makarov / 9x18 Makarov | |
|------------------------------------|--|
| FMJ, 6.0 g / 92 gr | |
| Cu-coated tombac jacket, lead core | |
| SINOXID / double base powder | |
| CuZn - alloy | |
| XX.X g | |
| | |

| Performance | | |
|-----------------------|---------------------|---------------|
| term of reference | C.I.P. | |
| mean chamber pressure | max. 1 600 bar | (21°C) |
| muzzle velocity | 310 m/s (1 017 fps) | 150 mm barrel |
| muzzle energy | 288 J | |
| accuracy at 25 m | 50% radius ≤ 32 mm | |

| Packaging 50 rds/cardboard box, 1 000 rds/cardboard box | (|
|---|---|
|---|---|

9x21 FMJ 8.0 g / 124 gr

Reliable non-corrosive SINOXID-primer

Preserves the weapon's service life

Trusted by Law Enforcement & Armed Forces worldwide



Application

The FMJ round is an excellent value for a training and service round with high reliability and good accuracy.

All components are produced in-house and perform seamlessly together for perfect functioning in all common types of pistol

| Cartridge | 9x21 / 9mm IMI |
|---------------------|------------------------------------|
| projectile | FMJ, 8.0 g / 124 gr |
| projectile material | Cu-coated tombac jacket, lead core |
| primer / propellant | SINOXID / double base powder |
| case material | CuZn - alloy |
| cartridge weight | XX.X g |
| | |

| Performance | | |
|-----------------------|---------------------|---------------|
| term of reference | C.I.P. | |
| mean chamber pressure | max. 2 350 bar | (21°C) |
| muzzle velocity | 360 m/s (1 181 fps) | 150 mm barrel |
| muzzle energy | 517 J | |
| accuracy at 25 m | 100% radius ≤ 40 mm | |

| Packaging | 50 rds/cardboard box, 1 000 rds/cardboard box |
|-----------|---|
|-----------|---|

.40 S&W FMJFP 11.7 g / 180 gr

Reliable non-corrosive SINOXID-primer

FMJFP-projectile for enhanced stopping power

Trusted by Law Enforcement & Armed Forces worldwide



Application

The FMJ round is an excellent value for a training and service round with high reliability and good accuracy.

All components are produced in-house and perform seamlessly together for perfect functioning in all common types of pistol

| Cartridge | .40 S&W / .40 Auto |
|---------------------|------------------------------------|
| projectile | FMJFP, 11.7 g / 180 gr |
| projectile material | Cu-coated tombac jacket, lead core |
| primer / propellant | SINOXID / double base powder |
| case material | CuZn - alloy |
| cartridge weight | XX.X g |

| Performance | | |
|-----------------------|---------------------|---------------|
| term of reference | C.I.P. | |
| mean chamber pressure | max. 2 250 bar | (21°C) |
| muzzle velocity | 310 m/s (1 017 fps) | 150 mm barrel |
| muzzle energy | 562 J | |
| accuracy at 25 m | 100% radius ≤ 30 mm | |

.45 ACP FMJ 14.9 g / 230 gr

Cost effective CIP-approved versatile round

Preserves the weapon's servicelife

Reliable cartridge design combines accuracy and stopping power



Application

The FMJ round is an excellent value for a training and service round with high reliability and good accuracy.

All components are produced in-house and perform seamlessly together for perfect functioning in all common types of pistol

| Cartridge | .45 ACP/.45 Auto |
|---------------------|------------------------------------|
| projectile | FMJ, 14.9 g / 230 gr |
| projectile material | Cu-coated tombac jacket, lead core |
| primer / propellant | SINOXID / double base powder |
| case material | CuZn - alloy |
| cartridge weight | XX.X g |

| Performance | | |
|-----------------------|--------------------------|----------|
| term of reference | C.I.P. | |
| mean chamber pressure | max. 1 300 bar | (21°C) |
| muzzle velocity | 260 m/s (853 fps) 150 mr | n barrel |
| muzzle energy | 504 J | |
| accuracy at 25 m | 100% radius ≤ 40 mm | |

| Packaging | 50 rds/cardboard box, 1 000 rds/cardboard box |
|-----------|---|
|-----------|---|

.38 Special FMJFP 10.2 g / 158 gr

Excellent value for training and service round.

Flat Front enables a clean hole through the paper target

Reliable non-corrosive SINOXID-primer



Application

The FMJ round is an excellent value for a training and service round with high reliability and good accuracy.

All components are produced in-house and perform seamlessly together for perfect functioning in all common types of pistol

| Cartridge | .38 Special / 9x29 R |
|---------------------|------------------------------------|
| projectile | FMJFP, 10.2 g / 158 gr |
| projectile material | Cu-coated tombac jacket, lead core |
| primer / propellant | SINOXID / double base powder |
| case material | CuZn - alloy |
| cartridge weight | XX.X g |
| | |

| Performance | | |
|-----------------------|---------------------|---------------|
| term of reference | C.I.P. | |
| mean chamber pressure | max. 1 500 bar | (21°C) |
| muzzle velocity | 270 m/s (886 fps) | 150 mm barrel |
| muzzle energy | 372 J | |
| accuracy at 25 m | 100% radius ≤ 25 mm | |

| Packaging | 50 rds/cardboard box, 1 000 rds/cardboard box |
|-----------|---|
| | |

.357 Magnum FMJFP 10.2 g / 158 gr

Cost effective CIP-approved versatile round

Preserves the weapon's servicelife

Trusted by Law Enforcement & Armed Forces worldwide



Application

The FMJ round is an excellent value for a training and service round with high reliability and good accuracy.

All components are produced in-house and perform seamlessly together for perfect functioning in all common types of pistol

| Cartridge | .357 Magnum / 9x33R |
|---------------------|------------------------------------|
| projectile | FMJFP, 10.2 g / 158 gr |
| projectile material | Cu-coated tombac jacket, lead core |
| primer / propellant | SINOXID / double base powder |
| case material | CuZn - alloy |
| cartridge weight | XX.X g |

| Performance | | |
|-----------------------|---------------------|---------------|
| term of reference | C.I.P. | |
| mean chamber pressure | max. 3 200 bar | (21°C) |
| muzzle velocity | 370 m/s (1 214 fps) | 150 mm barrel |
| muzzle energy | 698 J | |
| accuracy at 25 m | 100% radius ≤ 30 mm | |

| Packaging | 50 rds/cardboard box, 1 000 rds/cardboard box | |
|-----------|---|--|
|-----------|---|--|

12/70 Magnum ENTRYI 32.5 g / 502 gr

Allows for rapid door breach to a point-blank range

Maintains the element of surprise

Minimises the risk of collateral damage



Application

The ENTRY I is a special round designed to destroy door locks and hinges at close range.

The pressed zinc powder projectile completely disintegrates upon impact and transfers its high kinetic energy on the target. There are no ricochets or backsplashes.

Fast energy transfer in soft targets provides excellent stopping power.

| Cartridge | 12/70 Magnum / 12-Gauge - 2 ^{3/4} " Magnum |
|---------------------|---|
| projectile | PZP, 32.5 g / 502 gr |
| projectile material | pressed zinc powder |
| primer / propellant | SINOXID / double base powder |
| case material | CuZn - alloy; plastic |
| cartridge weight | 45.0 g |
| | |

| Performance | | |
|-----------------------|---------------------------------|------------|
| term of reference | C.I.P. | |
| temperature range | -10°C to +52°C | |
| mean chamber pressure | max. 1 050 bar (Magnum) | (21°C) |
| penetration | 1.5 mm sheet steel (St37) up to | 2 m |
| | 3 mm sheet steel (St37) up to 2 | 2 cm |
| | 100 mm wood (fir in 5 layers) ι | up to 2 cm |

| Packaging | 25 rds/cardboard box, 250 rds/cardboard box |
|-----------|---|
|-----------|---|

12/70 Magnum ENTRYII 27.0 g / 417 gr

Allows for rapid door breach from up to 30 m Maintains the element of surprise Minimises the risk of collateral damage



Application

The Entry II is a special round designed to destroy door locks and hinges, against booby traps and for EOD missions.

The shooter can engage the target from a safe distance.

The pressed zinc powder slug disintegrates upon impact and transfers its high kinetic energy on the target.

| Cartridge | 12/70 Magnum / 12-Gauge - 23/4" Magnum |
|---------------------|--|
| projectile | PZPS, 27 g / 417 gr |
| projectile material | pressed zinc powder slug |
| primer / propellant | SINOXID / double base powder |
| case material | CuZn - alloy; plastic |
| cartridge weight | 38.0 g |
| | |

| Performance | | |
|-----------------------|---------------------------------|--------|
| term of reference | C.I.P. | |
| temperature range | -10°C to +52°C | |
| mean chamber pressure | max. 1 050 bar (Magnum) | (21°C) |
| penetration | 1.5 mm sheet steel (St37) up to | o 30 m |
| | 3 mm sheet steel (St37) up to | 2 cm |
| | | |
| | | |

| Packaging | 25 rds/cardboard box, 250 rds/cardboard box |
|-----------|---|
| | |

Technical specification and numerical data are given as an indication only and are of no contractual nature. 03.2012

Personal Defence Weapon Ammunition



Together ahead. RUAG

4.6x30 FMJ SX 2.6g / 40 gr

High energy round for an enhanced operating range

High effectiveness in the target

Small cartridge weight allows for higher combat loads





Application

The personal defence weapon system in the calibre 4.6x30 is perfect for use in both protection and close combat because it offers high firepower, is compact and is used in light weight weapon.

This is ideal for Armed Forces, Law Enforcement, Special Forces and Personal Protection.

The FMJ-cartridge is a perfect basic round for military purposes and for the personal defence of combat support troops.

Compared to a handgun it provides exceptional accuracy over a greater range.

High stopping power and good penetration make it an excellent multi-purpose round.

| Cartridge | 4.6x30 | |
|---------------------|---|--|
| projectile | FMJ, 2.6 g / 40 gr | |
| projectile material | CuZn - alloy plated steel jacket; PbSb-alloy core | |
| primer / propellant | SINTOX® - non toxic / double base powder | |
| case material | CuZn - alloy | |
| cartridge weight | 7.0 g | |

| Performance | | |
|-----------------------------|-----------------------------|--------|
| term of reference | C.I.P., DM21 | |
| temperature range | -54°C to +52°C | |
| mean chamber pressure | max. 4 000 bar | (21°C) |
| muzzle velocity / energy | 620 m/s (2 034 fps) / 500 J | |
| accuracy at 100 m | s _a ≤ 30 mm | |
| penetration in 20% gelatine | ≤ 30 cm at 25 m | |
| energy deposition | max. 33 J / cm | |

| Packaging | 40 rds/cardboard box, 1 920 rds/M2A1 box |
|-----------|--|
|-----------|--|

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4.6x30 ACTION SX 2.0 g / 31 gr

Excellent stopping power minimises the risk of collateral damage

Monolith design increases penetration in combined targets

Sealed and waterproofed for reliability in extreme missions

Lead-free bullet and primer reduce pollution





Application

The personal defence weapon system in the calibre 4.6x30 is perfect for use in both protection and close combat because it offers high firepower, is compact and is used in light weight weapon.

This is ideal for Armed Forces, Law Enforcement, Special Forces and Personal Protection.

The ACTION cartridge is designed for closed quarters deployment, where immediate energy transfer is essential.

It provides high stopping power against soft targets with a maximum penetration depth of 30 cm. This avoids full penetration and collateral damage.

The ACTION cartridge produces good performance on both hard and combined targets.

| 4.6x30 | |
|--|--|
| SHP, 2.0 g / 31 gr | |
| CuZn - alloy | |
| SINTOX® - non toxic / double base powder | |
| CuZn - alloy | |
| 6.5 g | |
| | |

| C.I.P. | |
|-----------------------------|--|
| -30°C to +52°C | |
| max. 4 000 bar | (21°C) |
| 690 m/s (2 264 fps) / 475 J | |
| s _a ≤35 mm | |
| ≤ 30 cm at 25 m | |
| max. 45 J / cm | |
| | -30°C to +52°C max. 4 000 bar 690 m/s (2 264 fps) / 475 J s _a ≤ 35 mm ≤ 30 cm at 25 m |

| Packaging | 40 rds/cardboard box, 1 920 rds/M2A1 box |
|-----------|--|
|-----------|--|

 $Technical specification and numerical data are given as an indication only and are of no contractual nature. \\ 03.2012$

4.6x30 AP SX 2.0 g / 31 gr

Excellent penetration of body armour (penetrates NATO CRISAT target up to 200 m)

High effectiveness in soft targets

Sealed and waterproofed for reliability in extreme missions

Lead-free bullet and primer reduce pollution





Application

The personal defence weapon system in the calibre 4.6x30 is perfect for use in both protection and close combat because it offers high firepower, is compact and is used in light weight weapon.

This is ideal for Armed Forces, Law Enforcement, Special Forces and Personal Protection.

The AP cartridge provides the highest penetration power in the 4.6x30 personal defence weapon family and enables the shooter to protect himself successfully against armoured targets even at a greater distance.

Due to the excellent energy transfer on soft targets it also provides enough stopping power for close range targets.

| Cartridge | 4.6x30 |
|---------------------|--|
| projectile | solid, 2.0 g / 31 gr |
| projectile material | Cu plated steel |
| primer / propellant | SINTOX [®] - non toxic / double base powder |
| case material | CuZn - alloy |
| cartridge weight | 6.5 g |
| | |

| C.I.P., DM31 | |
|---|---|
| -54°C to +52°C | |
| max. 4 000 bar | (21°C) |
| 680 m/s (2 231 fps) / 465 | J |
| s _a ≤35 mm | |
| CRISAT target (1.6mm titan plate + 20 layers of Kevlar) | |
| max. 40 J / cm | |
| | -54°C to +52°C max. 4 000 bar 680 m/s (2 231 fps) / 465 $s_a \le 35$ mm CRISAT target (1.6mm tita |

| Packaging | 40 rds/cardboard box, 1 920 rds/M2A1 box |
|-----------|--|
|-----------|--|

 $Technical specification and numerical data are given as an indication only and are of no contractual nature. \\ 03.2012$

4.6x30 Training SX

1.7g/26gr

Perfect round for tactical CQB training

Reduced risk of ricochet and target friendly on shooting range structures

Lead-free bullet and primer reduce polluti







Application

The personal defence weapon system in the calibre 4.6x30 is perfect for use in both protection and close combat because it offers high firepower, is compact and is used in light weight weapon.

This is ideal for Armed Forces, Law Enforcement, Special Forces and Personal Protection.

The Training cartridge is designed for training and for use as duty ammunition in sensitive areas such as ships or prisons to minimise collateral damage. In training it is friendly to the backstop and has a reduced tendency to ricochet.

| Cartridge | 4.6x30 |
|---------------------|--|
| projectile | JSC, 1.7 g / 26 gr |
| projectile material | CuZn-alloy jacket; Sn-alloy core |
| primer / propellant | SINTOX® - non toxic / double base powder |
| case material | CuZn - alloy |
| cartridge weight | 6.2 g |

| Performance | | |
|--------------------------|-----------------------------|--------|
| term of reference | C.I.P. | |
| temperature range | -30°C to +52°C | |
| mean chamber pressure | max. 4 000 bar | (21°C) |
| muzzle velocity / energy | 660 m/s (2 165 fps) / 370 J | |
| accuracy at 50 m | s _a ≤35 mm | |
| ideal range | ≤ 50 m | |
| | | |

| Packaging | 40 rds/cardboard box, 1 920 rds/M2A1 box |
|-----------|--|
| <u> </u> | |

 $\label{thm:contraction} Technical specification and numerical data are given as an indication only and are of no contractual nature. \\ 03.2012$

4.6x30 Frangible SJSX

1.7g/26gr

Perfect round for tactical CQB training

Ideal fragmentation size minimises ricochet and inhalation risk

Lead-free bullet and primer reduce pollut







Application

The personal defence weapon system in the calibre 4.6x30 is perfect for use in both protection and close combat because it offers high firepower, is compact and is used in light weight weapon.

The Frangible SX is specially developed for the training and service needs of police, military and security staff.

The bullet is made from sintered copper, is completely lead-free and fully recyclable.

The Frangible SX is particularly suitable for tactical CQB/MOUT training, as the teams can train safely and effectively with maximum realism. The shooting distance can be reduced without the risk of being hit by backsplashes or ricochets.

| Cartridge | 4.6x30 |
|---------------------|--|
| projectile | semi-jacketed frangible, 1.7 g / 26 gr |
| projectile material | sintered Cu in tombac jacket |
| primer / propellant | SINTOX® - non toxic / double base powder |
| case material | CuZn - alloy |
| cartridge weight | 6.3 g |

| Performance | | |
|--------------------------|-----------------------------|--------|
| term of reference | C.I.P. | |
| temperature range | -30°C to +52°C | |
| mean chamber pressure | max. 4 000 bar | (21°C) |
| muzzle velocity / energy | 700 m/s (2 297 fps) / 365 J | |
| accuracy at 25 m | s _a ≤35 mm | |
| ideal range | 1 - 50 m | |
| | | |

| Packaging | 40 rds/cardboard box, 1 920 rds/M2A1 box |
|-----------|---|
| raokaging | 40 103/ Cal about a box, 1 320 103/ WZ/11 box |

Technical specification and numerical data are given as an indication only and are of no contractual nature. 10.2013

4.6x30 Blank SX

Unique solution for highly effective live combat simulation training

Designed for perfect weapon's feed RUAG is the only worldwide supplier







Application

The personal defence weapon system in the calibre 4.6x30 is perfect for use in both protection and close combat because it offers high firepower, is compact and is used in light weight weapon.

This is ideal for Armed Forces, Law Enforcement, Special Forces and Personal Protection.

The Blank cartridge allows realistic but risk-free combat simulation with the service weapon and the blank firing attachment.

| Cartridge | 4.6x30 |
|---------------------|--|
| primer / propellant | SINTOX® - non toxic / single base powder |
| case material | CuZn - alloy |
| cartridge weight | 4.5 g |
| | |
| | |

| Performance | | |
|----------------------------|----------------|--------|
| term of reference | C.I.P., DM18 | |
| temperature range | -20°C to +40°C | |
| mean chamber pressure + 3s | max. 4 000 bar | (21°C) |
| | | |
| | | |
| | | |
| | | |
| | | |

| Packaging | 40 rds/cardboard box, 1 920 rds/M2A1 box |
|-----------|--|
| | |

Technical specification and numerical data are given as an indication only and are of no contractual nature. 10.2013

Ammunition for Armed Forces



Together ahead. RUAG

5.56x45 FMJ (M193) 3.6g / 55 gr

Cost effective versatile round with best-in-class accuracy

Optimal solution for long twist barrels

Highest penetration performance for operations in urban terrain (< 50 m)



Application

The FMJ (M193) is specifically designed to NATOstandards and produces the perfect tool for Armed Forces.

It provides a high level of accuracy and undisputed reliability, wherever the mission may take place. Due to minimal barrel wear and smoke residue build up the service life of the weapon is enhanced.

The FMJ (M193) is also available linked according to the customer's requirements.

| Cartridge | 5.56x45 / .223 Rem. | | |
|-------------------------------|---|--------------------|--|
| projectile | FMJ, 3.6 g / 55 gr | | |
| projectile material | tombac jacket, lead core | | |
| ballistic coefficient C1 | 0.280 (ICAO) | | |
| primer / propellant | SINOXID / double base powder | | |
| case material | CuZn - alloy | | |
| cartridge weight | 11.6 g | | |
| Performance | | | |
| term of reference | МСМОРІ | | |
| temperature range | -54°C to +52°C | | |
| mean case mouth pressure + 3s | max. 4 450 bar | (21°C) | |
| muzzle velocity | 990 m/s (3 248 fps) | 510 mm barrel | |
| muzzle energy | 1 764 J | | |
| accuracy at 300 m | s _H ; s _v ≤ 85 mm | | |
| penetration at 300 m | 5 mm steel plate, St 37, 60° | | |
| Packaging | 10 rds/clip, 50 rds/cardboard b | ox, 1 000 rds/M2A1 | |

 $Technical specification and numerical data are given as an indication only and are of no contractual nature. \\ 10.2013$

5.56x45 FMJ HA

4.1g/63gr

Match grade accuracy

Enhanced penetration due to tombac plated steel jacketed bullet

Preserves the weapon's service life



Application

The FMJ HA (High Accuracy) round is a selected version of the GP90, which is in service with the Swiss Army for many years. This round is known as one of the most accurate and reliable infantry rounds on the market and is also used by sports shooters.

The tombac plated steel jacket provides enhanced penetration which allows the piercing of a steel helmet even at 300 m. The lead core is totally encapsulated to minimise lead contamination.

The FMJ HA is also available linked with a Tracer in mixed ratios according to the customer's requirements.

| Cartridge | 5.56x45 / .223 Rem. | |
|----------------------------|--|---------------|
| projectile | FMJ, 4.1 g / 63 gr | |
| projectile material | tot. encapsulating CuZn plated steel jacket, lead core | |
| ballistic coefficient C1 | 0.345 (ICAO) | |
| primer / propellant | SINOXID / double base powder | |
| case material | CuZn - alloy | |
| cartridge weight | 12.2 g | |
| Performance | | |
| term of reference | Swiss Army | |
| temperature range | -30°C to +60°C | |
| mean chamber pressure + 3s | max. 4 200 bar | (21°C) |
| muzzle velocity | 910 m/s (2 985 fps) | 500 mm barrel |
| muzzle energy | 1 700 J | |
| accuracy at 300 m | s _H ; s _V ≤ 60 mm | |

Technical specification and numerical data are given as an indication only and are of no contractual nature. 05.2012

5.56x45 HC (SS109)

4.0g/62gr

Cost effective NATO-approved versatile round

Best-in-class accuracy which significantly outperforms NATO-standards

The first SS109 round fully compliant with climate zone A1 requirements





Application

The HC (SS109 / M855) is specifically designed to NATO-standards and produces the perfect tool for Armed Forces that need enhanced performance on hard targets.

It provides a high accuracy and excellent reliability, wherever the mission may take place.

The HC (SS109) round is also available linked in mixed ratios according to the customer's requirements.

| Cartridge | 5.56x45 / .223 Rem. HC, 4.0 g / 62 gr | |
|-------------------------------|---|---------------|
| projectile | | |
| projectile material | tombac jacket, hardened steel and lead cores | |
| ballistic coefficient C1 | 0.310 (ICAO) | |
| primer / propellant | SINOXID / double base powder | |
| case material | CuZn - alloy | |
| cartridge weight | 12.2 g | |
| Performance | | |
| term of reference | MCMOPI, NATO qualified | |
| temperature range | -54°C to +52°C | |
| mean case mouth pressure + 3s | max. 4 450 bar | (21°C) |
| muzzle velocity | 945 m/s (3 100 fps) | 510 mm barrel |
| muzzle energy | 1 785 J | |
| accuracy at 300 m | s _H ; s _v ≤ 85 mm | |
| penetration at 570 m | 3.5 mm steel plate, Rockwell B55-70 | |
| | | |
| Packaging | 10 rds/clip, 50 rds/cardboard box, 1 000 rds/M2A1 | |

Technical specification and numerical data are given as an indication only and are of no contractual nature. 01.2014

5.56x45 AP TC

4.1g/63gr

Most accurate AP round

Outstanding penetration power on armoured targets

Fully compliant with climate zone A1 requirements



Application

The AP TC is specifically designed to NATOstandards and produces the perfect tool for Armed Forces that need excellent penetration over a longer range.

The tungsten carbide core is much harder and more ductile than most targets which makes it unstoppable for light armour. Because the core does not break apart during penetration, it transfers outstanding residual energy to the target.

Using only high quality raw materials and producing within tight tolerances ensures outstanding accuracy.

The AP TC round is also available linked in mixed ratios according to the customer's requirements.

| Cartridge | 5.56x45 / .223 Rem. | |
|-------------------------------|--|--------------|
| projectile | AP, 4.1 g / 63 gr | |
| projectile material | tombac jacket, tungsten carbide & lead cores | |
| ballistic coefficient C1 | 0.342 (ICAO) | |
| primer / propellant | SINOXID / double base powder | |
| case material | CuZn - alloy | |
| cartridge weight | 12.2 g | |
| Performance | | |
| term of reference | МСМОРІ | |
| temperature range | -54°C to +52°C | |
| mean case mouth pressure + 3s | max. 4 450 bar | (21°C) |
| muzzle velocity | 945 m/s (3 100 fps) | 510 mm barre |
| muzzle energy | 1 830 J | |
| accuracy at 300 m | s _H ; s _v ≤ 65 mm | |

| Packaging | 10 rds/clip, 50 rds/cardboard box, 1 000 rds/M2A1 |
|-----------|---|
|-----------|---|

Technical specification and numerical data are given as an indication only and are of no contractual nature. 03.2012

5.56x45 LF HC SX

4.0g/62gr

Lead-free NATO-approved versatile round (SS109/M855 type)

Best-in-class accuracy which significantly outperforms NATO-standards

Fully compliant with climate zone A1 requirements

Reduced wear and strain on the barrel maintains accuracy over the weapon's life









Application

The totally lead-free LF HC SX is specifically designed to NATO-standards and produces the perfect tool for Armed Forces that need excellent penetration over a longer range.

The projectile construction is based on the well known and combat proven SS109 round. The hardened steel core provides a maximum of penetration power. The second core, consisting of tombac, provides additional performance and the jacket minimised the barrel wear.

The LF HC SX round is also available linked in mixed ratios according to the customer's requirements.

| Cartridge | 5.56x45 / .223 Rem. | |
|-------------------------------|--|---------------|
| projectile | HC, 4.0 g / 62 gr | |
| projectile material | tombac-jacket, hardened steel and tombac cores | |
| ballistic coefficient C1 | 0.310 (ICAO) | |
| primer / propellant | SINTOX* - non toxic / double base powder | |
| case material | CuZn - alloy | |
| cartridge weight | 12.1 g | |
| Performance | | |
| term of reference | МСМОРІ | |
| temperature range | -54°C to +52°C | |
| mean case mouth pressure + 3s | max. 4 450 bar | (21°C) |
| muzzle velocity | 945 m/s (3 100 fps) | 510 mm barrel |
| muzzle energy | 1 786 J | |
| accuracy at 300 m | s ₄ ; s _v ≤ 85 mm | |

| Packaging | 10 rds/clip, 50 rds/cardboard box, 1 000 rds/M2A1 |
|-----------|---|

Technical specification and numerical data are given as an indication only and are of no contractual nature. 05.2013

5.56x45 LF HC+SX

4.0g/62gr

Lead-free versatile round

LMG round for enhanced penetration power on armoured targets (fills the gap to 7.62x51 Ball)

Excellent value for use in LMG

Fully compliant with climate zone A1 requirements









Application

The totally lead-free LF HC+ SX is specifically designed to NATO-standards and produces the perfect tool for Armed Forces that need excellent penetration over a longer range.

The projectile consists of a hardened steel core, which makes two-thirds of the bullet weight. This design guarantees excellent penetration on hard targets. The brass-shoe provides optimal spin, minimal barrel wear and allows outstanding accuracy. A high performance powder ensures an extra long shelf life under extreme conditions.

The LF HC+ SX round is also available linked in mixed ratios according to the customer's requirements.

| Cartridge | 5.56x45 / .223 Rem. |
|---------------------|--|
| projectile | JHC, 4.0 g / 62 gr |
| projectile material | hardened steel core; brass-shoe |
| primer / propellant | SINTOX* - non toxic / double base powder |
| case material | CuZn - alloy |
| cartridge weight | 12.2 g |

| Performance | | |
|-------------------------------|------------------------|---------------|
| term of reference | МСМОРІ | |
| temperature range | -54°C to +52°C | |
| mean case mouth pressure + 3s | max. 4 450 bar | (21°C) |
| muzzle velocity | 935 m/s (3 068 fps) | 510 mm barrel |
| muzzle energy | 1 730 J | |
| accuracy at 300 m | s _a ≤ 85 mm | |
| penetration at 300 m: | 12 mm mild steel plate | |

| Packaging | 10 rds/clip, 50 rds/cardboard box, 1 000 rds/M2A1 |
|-----------|---|
|-----------|---|

Technical specification and numerical data are given as an indication only and are of no contractual nature. 06.2013

5.56x45 Frangible SJSX 3.2 g / 50 gr

Perfect round for tactical CQB training

Ideal fragmentation size minimises ricochet and inhalation risk

Lead-free bullet and primer reduce pollution







Application

The Frangible SX is specially developed for the training and service needs of police, military and security staff.

The bullet is made from sintered copper, is completely lead-free and fully recyclable.

The Frangible SX is particularly suitable for tactical CQB/MOUT training, as the teams are able to train safely and effectively with maximum realism. The shooting distance can be reduced without risking being hit by backsplashes or ricochets.

| Cartridge | 5.56x45 / .223 Rem. |
|---------------------|--|
| projectile | semi-jacketed frangible, 3.2 g / 50 gr |
| projectile material | sintered Cu in tombac jacket |
| primer / propellant | SINTOX® - non toxic / double base powder |
| case material | CuZn - alloy |
| cartridge weight | 11.4 g |
| | |

| Performance | | | |
|-------------------------------|------------------------|---------------|--|
| term of reference | МСМОРІ | | |
| temperature range | -54°C to +52°C | | |
| mean case mouth pressure + 3s | max. 4 450 bar | (21°C) | |
| muzzle velocity | 890 m/s (2 920 fps) | 510 mm barrel | |
| | 1 267 J | | |
| | s _a ≤ 30 mm | | |
| ideal range | 1 - 100 m | | |
| · · | | | |

| Packaging | 10 rds/clip, 50 rds/cardboard box, 1 000 rds/M2A1 |
|-----------|---|
| | |

Technical specification and numerical data are given as an indication only and are of no contractual nature. 01.2014

5.56x45 Frangible SJSX

4.0g/62gr

Perfect round for tactical CQB training

Ideal fragmentation size minimises ricochet and inhalation risk

Lead-free bullet and primer reduce pollution







Application

The Frangible SX is specially developed for the training and service needs of police, military and security staff.

The bullet is made from sintered copper, is completely lead-free and fully recyclable.

The Frangible SX is particularly suitable for tactical CQB/MOUT training, as the teams are able to train safely and effectively with maximum realism. The shooting distance can be reduced without risking being hit by backsplashes or ricochets.

| Cartridge | 5.56x45 / .223 Rem. |
|---------------------|--|
| projectile | semi-jacketed frangible, 4.0 g / 62 gr |
| projectile material | sintered Cu in tombac jacket |
| primer / propellant | SINTOX® - non toxic / double base powder |
| case material | CuZn - alloy |
| cartridge weight | 12.2 g |

| Performance | | |
|-------------------------------|------------------------|---------------|
| term of reference | МСМОРІ | |
| temperature range | -54°C to +52°C | |
| mean case mouth pressure + 3s | max. 4 450 bar | (21°C) |
| muzzle velocity | 805 m/s (2 641 fps) | 510 mm barrel |
| muzzle energy | 1 296 J | |
| | s _a ≤ 25 mm | |
| ideal range | 1 - 100 m | |
| | | |

| Packaging | 10 rds/clip, 50 rds/cardboard box, 1 000 rds/M2A1 |
|-----------|---|
| | |

Technical specification and numerical data are given as an indication only and are of no contractual nature. 01.2014

5.56x45 Tracer

4.1g/63gr

Red trace mixture illuminates the flight path

Delayed trace ignition conceals the shooter's location

Reliable in extreme environmental conditions

Excellent function in LMGs





Application

The Tracer (M856) is specifically designed to NATOstandards and is suitable for either marking targets or as an indicator when the magazine is nearly empty and should be changed.

The delayed start of the red trace helps to conceale the shooter's position from the enemy. To improve the concealement even further an infrared trace is available that is only visible with night vision devices.

The Tracer is also available linked in mixed ratios according to the customer's requirements.

| Cartridge | 5.56x45 / .223 Rem. |
|---------------------|---|
| projectile | tracer, 4.1 g / 63 gr |
| projectile material | tombac-plated steel-jacket, lead core and trace mixture |
| primer / propellant | SINOXID / double base powder |
| case material | CuZn - alloy |
| cartridge weight | 12.2 g |
| | |

| Performance | | |
|-------------------------------|--|---------------|
| term of reference | MCMOPI, NATO qualified | |
| temperature range | -54°C to +52°C | |
| mean case mouth pressure + 3s | max. 4 450 bar | (21°C) |
| muzzle velocity | 905 m/s (2 969 fps) | 510 mm barrel |
| muzzle energy | 1 680 J | |
| accuracy at 300 m | s _H ; s _V ≤ 125 mm | |
| min. trace distance | 600 m | |

| Packaging | 100 rds/linked, 800 rds/M2A1 |
|-----------|------------------------------|
| | |

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5.56x45 Blank

Safe solution for live combat simulation training

Designed for perfect weapon's feed

Optimised for specific weapon and simulation systems



Application

The Blank cartridge is a non-lethal round for forceon-force training and works perfect under extreme environmental conditions and temperature fluctuations.

When used with a blank firing attachment (BFA), the weapon will automatically reload.

The Blank cartridge is also available linked according to the customer's requirements.

| Cartridge | 5.56x45 / .223 Rem. |
|---------------------|------------------------------|
| primer / propellant | SINOXID / double base powder |
| case material | CuZn - alloy |
| cartridge weight | 7.5 g |

| Performance | |
|-------------------|---------------------|
| temperature range | -20°C to +52°C |
| noise level | ≤ 160 dB (lin peak) |
| | |
| | |
| | |
| | |
| | |

| Packaging | 10 rds/clip, 50 rds/cardboard box, 1 000 rds/M2A1 |
|-----------|---|
|-----------|---|

Technical specification and numerical data are given as an indication only and are of no contractual nature. 03.2012

7.62x51 FMJ (M80) 9.5 g / 146 gr

Cost effective versatile round with best-in-class accuracy

Optimised case design provides excellent function in machine guns





Application

The FMJ (M80) is specifically designed to NATO standards and produces the perfect tool for Armed Forces that need good penetration over a longer range.

It provides best accuracy in class and undisputed reliability, wherever the mission may take place.

The FMJ (M80) is also available linked in mixed ratios according to the customer's requirements.

| Cartridge | 7.62x51 / .308 Win. | |
|-------------------------------|--|---------------|
| projectile | FMJ, 9.5 g / 146 gr | |
| projectile material | tombac-plated steel-jacket, lead core | |
| ballistic coefficient C1 | 0.359 (ICAO) | |
| primer / propellant | SINOXID / double base powder | |
| case material | CuZn - alloy | |
| cartridge weight | 24.0 g | |
| Performance | | |
| term of reference | МСМОРІ | |
| temperature range | -54°C to +52°C | |
| mean case mouth pressure + 3s | max. 4 450 bar | (21°C) |
| muzzle velocity | 855 m/s (2 805 fps) | 562 mm barrel |
| muzzle energy | 3 455 J | |
| accuracy at 550 m | s _H ; s _v ≤ 200 mm | |
| penetration at 570 m | 3.5 mm steel plate, Rockwell B55-70 | |
| Packaging | 10 rds/cardboard box 400 r | da/M2.41 |

| Packaging | 10 rds/cardboard box, 400 rds/M2A1 |
|-----------|------------------------------------|
| | |

Technical specification and numerical data are given as an indication only and are of no contractual nature. 03.2012

7.62x51 HC 9.6 g / 148 gr

Lead-free versatile round

MG round for enhanced penetration power on armoured targets

Extended shelf life due to a non-corrosive coating of the bullet

Reduced wear and strain on the barrel maintains accuracy over the weapon's life





Application

The HC round is specifically designed to NATO standards and produces the perfect tool for Armed Forces that need excellent penetration over a longer range.

The projectile consists of a hardened steel core which makes two-thirds of the bullet weight. This design guarantees excellent penetration on hard targets. The brass-shoe provides optimal spin, minimal barrel wear and allows outstanding accuracy.

The HC round is also available linked in mixed ratios according to the customer's requirements.

| Cartridge | 7.62x51 / .308 Win. | |
|-------------------------------|---|------------------|
| projectile | JHC, 9.6 g / 148 gr | |
| projectile material | hardened steel core; brass-s | hoe; zinc-coated |
| ballistic coefficient C1 | 0.359 (ICAO) | |
| primer / propellant | SINOXID / double base power | der |
| case material | CuZn - alloy | |
| cartridge weight | 24.0 g | |
| Performance | | |
| term of reference | МСМОРІ | |
| temperature range | -54°C to +52°C | |
| mean case mouth pressure + 3s | max. 4 450 bar | (21°C) |
| muzzle velocity | 845 m/s (2 772 fps) | 562 mm barre |
| muzzle energy | 3 430 J | |
| accuracy at 300 m | s ₄ ; s _v ≤ 85 mm | |

| Packaging | 10 rds/cardboard box, 400 rds/M2A1 |
|-----------|------------------------------------|

Technical specification and numerical data are given as an indication only and are of no contractual nature. 05.2012

7.62x51 Tracer (M62) 9.2g / 141 gr

Red trace mixture illuminates the flight path

Delayed trace ignition conceals the shooter's location

Reliable in extreme environmental conditions

Excellent function in MGs





Application

The Tracer is specifically designed to NATOstandards and is suitable for marking targets or as an indicator when the magazine is nearly empty and should be changed.

The delayed start of the red trace helps to conceale the shooter's position from the enemy.

The Tracer is also available linked in mixed ratios according to the customer's requirements.

| Cartridge | 7.62x51/.308 Win. |
|---------------------|---|
| projectile | tracer, 9.2 g / 141 gr |
| projectile material | tombac-plated steel-jacket, lead core and trace mixture |
| primer / propellant | SINOXID / double base powder |
| case material | CuZn - alloy |
| cartridge weight | 24.0 g |
| | |

| Performance | | |
|-------------------------------|--|---------------|
| term of reference | МСМОРІ | |
| temperature range | -54°C to +52°C | |
| mean case mouth pressure + 3s | max. 4 450 bar | (21°C) |
| muzzle velocity | 815 m/s (2 674 fps) | 562 mm barrel |
| muzzle energy | 3 055 J | |
| accuracy at 550 m | s _H ; s _v ≤ 300 mm | |
| min. trace distance | 775 m | |

| Packaging | 250 rds/linked, 500 rds/M2A1 |
|-----------|------------------------------|
| | |

Technical specification and numerical data are given as an indication only and are of no contractual nature. 03.2012

7.62x39 Blank

Safe solution for live fire combat simulation training

Designed for perfect weapon's feed

Optimised for specific weapon and simulation systems



Application

Its purpose is to imitate the sound effects and muzzle fire of shooting with live ammunition and the function, loading and ejection of automatic weapons during shooting from regular firearms with the standard barrel and a blank firing attachment. (BFA)

| Cartridge | 7.62x39 / 7.62 Kalashnikov |
|---------------------|------------------------------|
| primer / propellant | SINOXID / double base powder |
| case material | lacquered steel case |
| cartridge weight | 9.1 g |
| | |
| | |
| | |

| Performance | | |
|-------------------|----------------|--|
| temperature range | -20°C to +52°C | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

| Packaging | 10 rds/cardboard box, 400 rds/M2A1 |
|-----------|------------------------------------|
| | |

 $Technical specification and numerical data are given as an indication only and are of no contractual nature. \\ 10.2012$

12.7x99 SR SolidSX

45.2g/698gr

For limited training areas (small shooting range, populated surroundings, helicopters)

Identical shooting characteristics ensure realistic short range training

Reduced wear and strain on the barrel maintains accuracy over the weapon's life

Integrates with Short Range Tracer rounds







Application

The short range technology (SR) considerably reduces the effective range, providing great benefits when training in a limited operating area, especially on flat terrain.

12.7x99 rounds have a general operational range of 2 km and require a large safety zone beyond the danger zone.

Due to the poor aerodynamic profile the projectile decelerates faster than a conventional bullet.

The SR Solid round is also available linked in mixed ratios according to the customer's requirements.

| Cartridge | 12.7x99 / .50 Browning |
|---------------------|-----------------------------|
| projectile | Solid, 45.2 g / 698 gr |
| projectile material | CuZn - alloy |
| primer/propellant | SINTOX / double base powder |
| case material | CuZn - alloy |
| cartridge weight | 118.0 g |
| case material | CuZn - alloy |

| Performance | | |
|------------------------------|-------------------------|-----------------------|
| temperature range | -54°C to +52°C | |
| mean case mouth pressure +3s | max. 4500 bar | (21°C) |
| muzzle velocity | 880 m/s (2887 fps) | 1 143 mm / 45" barrel |
| muzzle energy | 17 501 J | |
| accuracy at 550 m | s _a ≤ 265 mm | |
| ideal range | ≤ 800 m | |

| Packaging | 10 rds/cardboard box, 100 rds/M2A1 | |
|-----------|------------------------------------|--|

Technical specification and numerical data are given as an indication only and are of no contractual nature. 02.2014

12.7x99 SR Solid Tracer SX 45.8g / 707 gr

For limited training areas (small shooting range, populated surroundings, helicopters)

Identical shooting characteristics ensure realistic short range training

Reduced wear and strain on the barrel maintains accuracy over the weapon's life

Integrates with Short Range rounds







Application

The short range technology (SR) considerably reduces the effective range, providing great benefits when training in a limited operating area, especially on flat terrain.

12.7x99 rounds have a general operational range of 2 km and require a large safety zone beyond the danger zone.

Due to the poor aerodynamic profile the projectile decelerates faster than a conventional bullet.

The SR Solid Tracer round is also available linked in mixed ratios according to the customer's requirements.

| 12.7x99 / .50 Browning |
|-------------------------------|
| Solid tracer, 45.8 g / 707 gr |
| CuZn - alloy |
| SINTOX / double base powder |
| CuZn - alloy |
| 118.6 g |
| |

| Performance | | |
|------------------------------|-------------------------|-----------------------|
| temperature range | -54°C to +52°C | |
| mean case mouth pressure +3s | max. 4500 bar | (21°C) |
| muzzle velocity | 870 m/s (2854 fps) | 1 143 mm / 45" barrel |
| muzzle energy | 17 333 J | |
| accuracy at 550 m | s _a ≤ 355 mm | |
| ideal range | ≤ 800 m | |

| Packaging | 10 rds/cardboard box, 100 rds/M2A1 |
|-----------|------------------------------------|
| | |

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The Sniper's Choice



.223 Rem. SWISS P Ball

4.1g/63gr

Most accurate FMJ round

Enhanced penetration due to tombac plated steel jacketed bullet

Preserves the weapon's service life

Coordinated ballistics with SWISS P Target, Styx Action and Armour Piercing rounds





Application

Designed for Army and Police snipers, the SWISSP Ball, provides outstanding accuracy at an enhanced operation range.

The reliable primer and temperature stable powder achieve constant ballistic values and stringent quality controls guarantee identical trajectory from batch to batch.

A wide range of special purpose bullets provide the desired terminal effect on hard and soft targets on every mission. All .223 Rem. SWISS P rounds have an identical point of impact at 100 m which allows the shooter to instantly change the bullet type.

| Cartridge | 5.56x45 / .223 Rem. | |
|----------------------------|---------------------------------------|--------------|
| projectile | FMJ, 4.1 g / 63 gr | |
| projectile material | tombac plated steel jacket, lead core | |
| ballistic coefficient G1 | 0.3678 (ICAO) | |
| primer / propellant | SINOXID / double base powder | |
| case material | CuZn - alloy | |
| cartridge weight | 12.2 g | |
| Performance | | |
| term of reference | Swiss Army | |
| mean chamber pressure + 3s | max. 4 200 bar | (21°C) |
| muzzle velocity | 910 m/s (2 985 fps) | 500 mm barre |
| muzzle energy | 1 700 J | |
| | | |

| Packaging | 10 rds/clip, 50 rds/cardboard box, 1 000 rds/M2A1 |
|-----------|---|

Technical specification and numerical data are given as an indication only and are of no contractual nature. 01.2014

.223 Rem. SWISS P Target 4.5 g / 69 gr

The most accurate .223 Rem. round
Enhanced operating range of up to 600 m
Preserves the weapon's service life
Coordinated ballistics with SWISS P Ball, Styx
Action and Armour Piercing rounds





Application

This is the perfect round for highly accurate target shooting in both competition and training at an enhanced operation range.

Tight production tolerances combined with small production batches ensure constant ballistic values and stringent quality controls guarantee identical trajectory from batch to batch.

A wide range of special purpose bullets provide the desired terminal effect on hard and soft targets on every mission. All .223 Rem. SWISS P rounds have an identical point of impact at 100 m which allows the shooter to instantly change the bullet type.

| Cartridge | 5.56x45 / .223 Rem. | |
|--------------------------|------------------------------|---------------|
| projectile | HPBT, 4.5 g / 69 gr | |
| projectile material | tombac jacket, lead core | |
| ballistic coefficient G1 | 0.3787 (ICAO) | |
| primer / propellant | SINOXID / double base powder | |
| case material | CuZn - alloy | |
| cartridge weight | 12.6 g | |
| Performance | | |
| term of reference | Swiss Army | |
| mean chamber pressure | max. 4 300 bar | (21°C) |
| muzzle velocity | 855 m/s (2 804 fps) | 500 mm barrel |
| muzzle energy | 1 644 J | |
| | S _a ≤ 17 mm | |

| Packaging | 10 rds/clip, 50 rds/cardboard box, 1 000 rds/M2A1 |
|-----------|---|
|-----------|---|

 $Technical specification and numerical data are given as an indication only and are of no contractual nature. \\ 01.2014$

.223 Rem. SWISS P Styx Action 4.5 g / 69 gr

Outstanding stopping power while eliminating the risk of collateral damage

Match grade accuracy

Coordinated ballistics with SWISS P Ball, Target and Armour Piercing rounds





Application

The hyper expanding hollow point bullet immediately deposits its energy within a very short distance providing excellent stopping power on soft targets and is also direction stable.

The sophisticated bullet tip provides an absolutely reliable hyper expansion to approximately the double of its original diameter.

Tight production tolerances combined with small production batches ensure constant ballistic values and stringent quality controls guarantee identical trajectory from batch to batch.

A wide range of special purpose bullets provide the desired terminal effect on hard and soft targets on every mission. All.223 Rem. SWISS Prounds have an identical point of impact at 100 m which allows the shooter to instantly change the bullet type.

| Cartridge | 5.56x45 / .223 Rem. | | |
|--------------------------|---|--------------------------|--|
| projectile | HPBT, 4.5 g / 69 gr | HPBT, 4.5 g / 69 gr | |
| projectile material | tombac jacket, lead core | | |
| ballistic coefficient G1 | 0.3129 (ICAO) | | |
| primer / propellant | SINOXID / double base po | wder | |
| case material | CuZn - alloy | | |
| cartridge weight | 12.6 g | | |
| Performance | | | |
| term of reference | Swiss Army | | |
| mean chamber pressure | max. 4300 bar | (21°C) | |
| muzzle velocity | 855 m/s (2805 fps) | 500 mm barrel | |
| muzzle energy | 1 645 J | | |
| accuracy at 300 m | s _H ; s _V ≤ 17 mm | | |
| | | | |
| Packaging | 10 rde/elin 50 rde/eardhoa | rd hov. 1 000 rdo/M2 \ 1 | |

 $\textbf{Packaging} \hspace{1.5cm} 10\,\text{rds/clip}, 50\,\text{rds/cardboard box}, 1\,000\,\text{rds/M2A1}$

 $Technical specification and numerical data are given as an indication only and are of no contractual nature. \\ 01.2014$

.223 Rem. SWISS P Final SR 3.4g / 52gr

Outstanding stopping power

Total bullet disintegration avoids collateral damage

Specifically designed for short range mission





Application

The Final SR (Short Range) round has evolved from a highly effective hunting round and was specially designed for short operation distances in urban environments.

The disintegrating hollow point bullet immediately deposits its energy within a very short distance providing excellent stopping power on soft targets.

Tight production tolerances combined with small production batches ensure constant ballistic values and stringent quality controls guarantee identical trajectory from batch to batch.

A wide range of special purpose bullets provide the desired terminal effect on hard and soft targets on every mission.

| Cartridge | 5.56x45 / .223 Rem. | |
|--------------------------|---|---------------|
| projectile | JHP, 3.4 g / 52 gr | |
| projectile material | tombac jacket, lead core | |
| ballistic coefficient G1 | 0.1816 (ICAO) | |
| primer / propellant | $SINTOX^{	ext{@}}$ - non toxic / double base powder | |
| case material | CuZn - alloy | |
| cartridge weight | 11.7 g | |
| Performance | | |
| term of reference | C.I.P. | |
| mean chamber pressure | max. 4300 bar | (21°C) |
| muzzle velocity | 1 040 m/s (3 412 fps) | 600 mm barrel |
| | 1 407 J | |
| muzzle energy | | |

| Packaging | 30 rds/clip, 450 rds/M2A1 |
|-----------|---------------------------|
|-----------|---------------------------|

 $Technical specification and numerical data are given as an indication only and are of no contractual nature.\\ 01.2014$

.223 Rem. SWISS P Armour Piercing 4.1 g / 63 gr

The most accurate Armour Piercing round

The tungsten carbide core provides outstanding penetration power

Extended barrel durability due to patented projectile design

Coordinated ballistics with SWISS P Ball, Target, Styx Action and Tactical rounds





Application

The tungsten carbide core is much harder and more ductile than most targets which makes it unstoppable for light armour. Because the core does not break apart during penetration it transfers outstanding residual energy.

Using only high quality raw materials and producing within tight tolerances ensure an identical point of impact from batch to batch.

A wide range of special purpose bullets provide the desired terminal effect on hard and soft targets on every mission. All .223 Rem. SWISS Prounds have an identical point of impact at 100 m which allows the shooter to instantly change the bullettype.

| Cartridge | 5.56x45 / .223 Rem. | |
|--------------------------|--|---------------|
| projectile | AP, 4.1 g / 63 gr | |
| projectile material | tombac jacket, tungsten carbide & lead cores | |
| ballistic coefficient G1 | 0.3632 (ICAO) | |
| primer / propellant | SINOXID / double base powder | |
| case material | CuZn - alloy | |
| cartridge weight | 12.2 g | |
| Performance | | |
| term of reference | Swiss Army | |
| mean chamber pressure | max. 4 300 bar | (21°C) |
| muzzle velocity | 875 m/s (2 870 fps) | 500 mm barrel |
| muzzle energy | 1 570 J | |
| | S _a ≤ 25 mm | |

| Packaging | 10 rds/clip, 50 rds/cardboard box, 1 000 rds/M2A1 |
|-----------|---|
| | |

 $Technical specification and numerical data are given as an indication only and are of no contractual nature. \\ 01.2014$

.308 Win. SWISS P Ball 11.4 g / 176 gr

Match grade accuracy

Excellent function in bolt-action and semi-automatic weapons

Coordinated ballistics with SWISS P Target, Styx Action, Armour Piercing and Tactical rounds





Application

Designed for Army and Police snipers, the SWISS P Ball, provides outstanding accuracy over an enhanced operation range.

The reliable primer and temperature stable powder achieve constant ballistic values and stringent quality controls guarantee identical trajectory from batch to batch.

A wide range of special purpose bullets provide the desired terminal effect on hard and soft targets on every mission. All .308 Win. SWISS P rounds have an identical point of impact at 100 m which allows the shooter to instantly change the bullet type.

| Cartridge | 7.62x51 / .308 Win. | |
|--------------------------|------------------------------|---------------|
| projectile | FMJ, 11.4 g / 176 gr | |
| projectile material | tombac jacket, lead core | |
| ballistic coefficient G1 | 0.5225 (ICAO) | |
| primer / propellant | SINOXID / double base powder | |
| case material | CuZn - alloy | |
| cartridge weight | 25.4 g | |
| Performance | | |
| term of reference | C.I.P. | |
| mean chamber pressure | max. 4 150 bar | (21°C) |
| muzzle velocity | 790 m/s (2 592 fps) | 650 mm barrel |
| muzzle energy | 3 557 J | |
| accuracy at 300 m | s _a ≤ 32 mm | |
| | | |

| Packaging | 20 rds/cardboard box, 200 rds/cardboard box |
|-----------|---|
| | |

 $Technical specification and numerical data are given as an indication only and are of no contractual nature. \\ 01.2014$

.308 Win. SWISS P Target 10.9 g / 168 gr

The most accurate .308 Win. round

Coordinated ballistics with SWISS P Ball, Styx Action, Armour Piercing and Tactical rounds





Application

This is the perfect round for highly accurate target shooting in competition and training.

Tight production tolerances and small production batches ensure constant ballistic values and stringent quality controls guarantee identical trajectory from batch to batch.

A wide range of special purpose bullets provide the desired terminal effect on hard and soft targets on every mission. All .308 Win. SWISS P rounds have an identical point of impact at 100 m which allows the shooter to instantly change the bullet type.

The .308 Win. SWISS PTarget is also available with a 11.3 g / 175 gr bullet.

| Cartridge | 7.62x51/.308 Win. | |
|--------------------------|--------------------------|---------------|
| projectile | HPBT, 10.9 g / 168 gr | |
| projectile material | tombac jacket, lead core | |
| ballistic coefficient G1 | 0.4893 (ICAO) | |
| primer / propellant | SINOXID / double base po | wder |
| case material | CuZn - alloy | |
| cartridge weight | 24.9 g | |
| Performance | | |
| term of reference | C.I.P. | |
| mean chamber pressure | max. 4 150 bar | (21°C) |
| muzzle velocity | 805 m/s (2 641 fps) | 650 mm barrel |
| muzzle energy | 3 530 J | |
| accuracy at 300 m | s _a ≤ 17.5 mm | |

| Packaging20 rds/cardboard box, 200 rds/cardboard box | |
|--|--|
|--|--|

.308 Win. SWISS P Target 11.3 g / 175 gr

The most accurate .308 Win. round

Extended supersonic range ensures improved accuracy and greater energy on target

Coordinated ballistics with SWISS P Ball, Styx Action, Armour Piercing and Tactical rounds





Application

This is the perfect round for highly accurate target shooting in competition and training.

Tight production tolerances and small production batches ensure constant ballistic values and stringent quality controls guarantee identical trajectory from batch to batch.

A wide range of special purpose bullets provide the desired terminal effect on hard and soft targets on every mission. All .308 Win. SWISS P rounds have an identical point of impact at 100 m which allows the shooter to instantly change the bullet type.

The .308 Win. SWISS PTarget is also available with a 10.9 g / 168 gr bullet.

| Cartridge | 7.62x51/.308 Win. | |
|--------------------------|------------------------------|---------------|
| projectile | HPBT, 11.3 g / 175 gr | |
| projectile material | tombac jacket, lead core | |
| ballistic coefficient G1 | 0.5474 (ICAO) | |
| primer / propellant | SINOXID / double base powder | |
| case material | CuZn - alloy | |
| cartridge weight | 25.3 g | |
| Performance | | |
| term of reference | C.I.P. | |
| mean chamber pressure | max. 4 150 bar | (21°C) |
| muzzle velocity | 790 m/s (2 592 fps) | 650 mm barrel |
| muzzle energy | 3 540 J | |
| accuracy at 300 m | s _a ≤ 14.5 mm | |

| Packaging | 20 rds/cardboard box, 200 rds/cardboard box |
|-----------|---|
| | 20.00,00.0000.0000.0000.0000.0000.0000. |

.308 Win. SWISS P Styx Action 10.8g / 167 gr

Outstanding stopping power while minimising the risk of collateral damage

Match grade accuracy

Coordinated ballistics with SWISS P Ball, Target, Armour Piercing and Tactical rounds





Application

The hyper expanding hollow point bullet immediately deposits its energy within a very short distance providing excellent stopping power on soft targets and is direction stable.

The sophisticated bullet tip provides an absolutely reliable hyper expansion to approximately the double of its original diameter.

Tight production tolerances and small production batches ensure constant ballistic values and stringent quality controls guarantee identical trajectory from batch to batch.

A wide range of special purpose bullets provide the desired terminal effect on hard and soft targets on every mission. All .308 Win. SWISS P rounds have an identical point of impact at 100 m which allows the shooter to instantly change the bullet type.

| Cartridge | 7.62x51/.308 Win. | |
|--------------------------|------------------------------|---------------|
| projectile | HPBT, 10.8 g / 167 gr | |
| projectile material | tombac jacket, lead core | |
| ballistic coefficient G1 | 0.3630 (ICAO) | |
| primer / propellant | SINOXID / double base powder | |
| case material | CuZn - alloy | |
| cartridge weight | 24.8 g | |
| Performance | | |
| term of reference | C.I.P. | |
| mean chamber pressure | max. 4 150 bar | (21°C) |
| muzzle velocity | 810 m/s (2657 fps) | 650 mm barrel |
| muzzle energy | 3 550 J | |
| accuracy at 300 m | s _a ≤ 27 mm | |

| Packaging | 20 rds/cardboardbox, 200 rds/cardboardbox |
|------------|---|
| . aonaging | 20140/04/4504/4504/4504/4504/4504 |

.308 Win. SWISS P Final SR 8.4 g / 130 gr

Outstanding stopping power

Total bullet disintegration avoids collateral damage

Specifically designed for short range missic





Application

The Final SR (Short Range) round has evolved from a highly effective hunting round and was specially designed for short operation distances in urban environments.

The disintegrating hollow point bullet immediately deposits its energy within a very short distance providing excellent stopping power on soft targets.

Tight production tolerances and small production batches ensure constant ballistic values and stringent quality controls guarantee identical trajectory from batch to batch.

A wide range of special purpose bullets provide the desired terminal effect on hard and soft targets on every mission.

| Cartridge | 7.62x51 / .308 Win. | |
|--------------------------|------------------------------|---------------|
| projectile | JHP, 8.4 g / 130 gr | |
| projectile material | tombac jacket, lead core | |
| ballistic coefficient G1 | 0.2397 (ICAO) | |
| primer / propellant | SINOXID / double base powder | |
| case material | CuZn - alloy | |
| cartridge weight | 22.4 g | |
| Performance | | |
| term of reference | C.I.P. | |
| mean chamber pressure | max. 4 150 bar | (21°C) |
| muzzle velocity | 895 m/s (2 936 fps) | 650 mm barrel |
| muzzle energy | 3 360 J | |
| accuracy at 100 m | S _a ≤ 14 mm | |

| Packaging | 20 rds/cardboard box, 200 rds/cardboard box |
|-----------|---|
| | |

.308 Win. SWISS P Armour Piercing 12.7 g / 196 gr

The most accurate Armour Piercing round

The tungsten carbide core provides outstanding penetration power

Extended barrel durability due to patented projectile design

Coordinated ballistics with SWISS P Ball, Target, Styx Action and Tactical rounds





Application

The tungsten carbide core is much harder and more ductile than most targets which makes it unstoppable for light armour. Because the core does not break apart during penetration it transfers outstanding residual energy to the target.

Using only high quality raw materials and producing within tight tolerances ensure an identical point of impact from batch to batch.

A wide range of special purpose bullets provide the desired terminal effect on hard and soft targets on every mission. All .308 Win. SWISS P rounds have an identical point of impact at 100 m which allows the shooter to instantly change the bullettype.

| Cartridge | 7.62x51 / .308 Win. | |
|--------------------------|--|---------------|
| projectile | AP, 12.7 g / 196 gr | |
| projectile material | tombac jacket, tungsten carbide and lead cores | |
| ballistic coefficient G1 | 0.6517 (ICAO) | |
| primer / propellant | SINOXID / double base powder | |
| case material | CuZn - alloy | |
| cartridge weight | 26.7 g | |
| Performance | | |
| term of reference | C.I.P. | |
| mean chamber pressure | max. 4 150 bar | (21°C) |
| muzzle velocity | 790 m/s (2 592 fps) | 650 mm barrel |
| muzzle energy | 3 965 J | |
| accuracy at 300 m | s _a ≤35 mm | |
| | | |

| Packaging | 20 rds/cardboardbox, 200 rds/cardboardbox |
|------------|---|
| . aonaging | 20140/04/4504/4504/4504/4504/4504 |

.308 Win. SWISS P Tactical 10.6g / 163 gr

Excellent first hit probability of targets behind angled glass

No projectile deflection and fragmentation ensure the safety of bystanders

Coordinated ballistics with SWISS P Ball, Target, Styx Action and Armour Piercing rounds





Application

The challenge is to accurately hit targets behind an angled window or wind shield without the risk of unpredictable bullet deflection. This could endanger bystanders, especially if the shooting line is not perpendicular to the window.

Conventional bullets break apart or fragment when penetrating glass which makes accurate shooting impossible. At least 90% of the residual body of the SWISS P Tactical bullet stays intact and it does not fragment at all.

Tight production tolerances and small production batches ensure constant ballistic values and stringent quality controls guarantee identical trajectory from batch to batch.

All .308 Win. SWISS P rounds have an identical point of impact at 100 m which allows the shooter to instantly change the bullet type.

| Cartridge | 7.62x51 / .308 Win. | |
|--------------------------|------------------------------|---------------|
| projectile | SFNBT, 10.6 g / 163 gr | |
| projectile material | CuZn - alloy | |
| ballistic coefficient G1 | 0.3032 (ICAO) | |
| primer / propellant | SINOXID / double base powder | |
| case material | CuZn - alloy | |
| cartridge weight | 24.6 g | |
| Performance | | |
| term of reference | C.I.P. | |
| mean chamber pressure | max. 4 150 bar | (21°C) |
| muzzle velocity | 820 m/s (2 690 fps) | 650 mm barrel |
| muzzle energy | 3 564 J | |
| accuracy at 300 m | S _a ≤ 18 mm | |

| Packaging | 20 rds/cardboard box, 200 rds/cardboard box |
|-----------|---|

.308 Win. SWISS P Subsonic 13.0g / 200 gr

Provides a minimal accoustic profile to maintain the element of surprise

Physical and ballistic characteristics ensure subsonic flight in all environmental conditions

Best first hit probability due to a special loading technique

Blue marked primer ensures proper selecti





Application

Specially designed for subsonic shooting this round is a highly reliable solution that ensures good results even from supersonic weapon systems. This makes it a useful addition to the rest of the SWISS P product line.

The highly precise loading technique allows a cartridge load very close to the sound barrier, but without risking a supersonic bang. Even at subsonic speed the heavy subsonic bullet provides enough energy to achieve a good terminal target effect.

The .308 Win. SWISS P Subsonic is also available with a 15.6 g / 240 gr bullet.

| Cartridge | 7.62x51/.308 Win. | |
|--------------------------|--------------------------|---------------|
| projectile | HPBT, 13.0 g / 200 gr | |
| projectile material | tombac jacket, lead core | |
| ballistic coefficient G1 | 0.3636 (ICAO) | |
| primer/propellant | SINOXID / double base po | wder |
| case material | CuZn - alloy | |
| cartridge weight | 27.0 g | |
| Performance | | |
| term of reference | C.I.P. | |
| mean chamber pressure | max. 1 600 bar | (21°C) |
| muzzle velocity | 315 m/s (1033 fps) | 450 mm barrel |
| muzzle energy | 645 J | |
| accuracy at 100 m | 100% radius ≤ 76 mm | |

| Packaging | 20 rds/cardboard box, 200 rds/cardboard box |
|-----------|---|
| 5 5 | • |

.308 Win. SWISS P Subsonic 15.6g / 240 gr

Enhanced projectile weight provides greater energy on target

Physical and ballistic characteristics ensure subsonic flight in all environmental conditions

Best first hit probability due to a special loading technique

Blue marked primer ensures proper selecti





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The extra heavy subsonic bullet provides additional energy to achieve an enhanced target effect, compared to the standard 13.0 g / 200 gr SWISS P Subsonic bullet.

The highly precise loading technique allows a cartridge load very close to the sound barrier, but without risking a supersonic bang. Even at subsonic speed, the heavy subsonic bullet provides enough energy to achieve a good terminal target effect.

| Cartridge | 7.62x51/.308 Win. | |
|--------------------------|------------------------------|---------------|
| projectile | HPBT, 15.6 g / 240 gr | |
| projectile material | tombac jacket, lead core | |
| ballistic coefficient G1 | 0.4646 (ICAO) | |
| primer / propellant | SINOXID / double base powder | |
| case material | CuZn - alloy | |
| cartridge weight | 27.0 g | |
| Performance | | |
| term of reference | C.I.P. | |
| mean chamber pressure | max. 2 500 bar | (21°C) |
| muzzle velocity | 315 m/s (1 033 fps) | 450 mm barrel |
| muzzle energy | 770 J | |
| accuracy at 100 m | S _a ≤ 14 mm | |

| Packaging | 20 rds/cardboard box, 200 rds/cardboard box |
|-----------|---|
| | |

.308 Win. SWISS P Subsonic Final 13.0 g / 200 gr

Outstanding stopping power avoids collateral damage due to total bullet disintegration

Provides a minimal accoustic profile to maintain the element of surprise

Best first hit probability due to a special loading technique

Blue marked primer ensures proper selecti





Application

The unique bullet made from pressed pellets instantaneously disintegrates when hitting a soft target even at subsonic speed.

The penetration depth of the fragments is extremely small, minimising the risk of over penetration and increasing the safety of bystanders. This makes it the perfect round for missions in urban terrain.

The heavy subsonic bullet provides enough energy to achieve a good terminal target effect.

Optimised for use in suppressed weapons. The muzzle bang is minimised and the supersonic bang is eliminated.

| Cartridge | 7.62x51 / .308 Win. | |
|--------------------------|------------------------------|---------------------|
| projectile | JPP, 13.0 g / 200 gr | |
| projectile material | tin plated tombac jacket, p | ressed lead pellets |
| ballistic coefficient G1 | 0.1587 (ICAO) | |
| primer / propellant | SINOXID / double base powder | |
| case material | CuZn - alloy | |
| cartridge weight | 27.0 g | |
| Performance | | |
| term of reference | C.I.P. | |
| mean chamber pressure | max. 3 600 bar | (21°C) |
| muzzle velocity | 310 m/s (1 017 fps) | 450 mm barrel |
| muzzle energy | 625 J | |
| accuracy at 50 m | S _a ≤ 17 mm | |

| Packaging | 20 rds/cardboard box, 200 rds/cardboard box |
|-----------|---|
| | , |

.300 Whisper SWISS P Target 14.3 g / 220 gr

Provides a minimal accoustic profile to maintain the element of surprise

Physical and ballistic characteristics ensure subsonic flight in all environmental conditions

Best first hit probability due to an optimised powder chamber





Application

The calibre .300 Whisper was specifically designed for subsonic shooting in urban terrain. The proportion of the chamber size and the amount of powder are optimised to ensure constant pressure build up and first hit probability.

The highly precise loading technique allows a cartridge load very close to the sound barrier, but without risking a supersonic bang. Even at subsonic speed the heavy subsonic bullet provides enough energy to achieve a good terminal target effect.

Tight production tolerances and small production batches ensure constant ballistic values and stringent quality controls guarantee identical trajectory from batch to batch.

| Cartridge | .300 Whisper | |
|--------------------------|------------------------------|---------------|
| projectile | HPBT, 14.3 g / 220 gr | |
| projectile material | tombac jacket, lead core | |
| ballistic coefficient G1 | 0.4166 (ICAO) | |
| primer/propellant | SINOXID / double base powder | |
| case material | CuZn - alloy | |
| cartridge weight | 22.3 g | |
| Performance | | |
| term of reference | C.I.P. | |
| mean chamber pressure | max. 3 500 bar | (21°C) |
| muzzle velocity | 315 m/s (1033 fps) | 450 mm barrel |
| muzzle energy | 709 J | |
| accuracy at 100 m | S _a ≤10mm | |

| Packaging | 20 rds/cardboard box, 600 rds/cardboard box |
|-----------|---|
| | |

.300WhisperSWISSPHVStyxAction 8.4 g / 130 gr

Outstanding stopping power while reducing the risk of collateral damage

Maximum performance in automatic weapo

High first hit probability even with short barrelled weapons at extended range





Application

The supersonic version of RUAG's famous .300 Whisper extends the operational range of the cartridge out to 300 meters and vastly enhances the terminal effect. It provides much more downrange energy than a comparable weapon of the same barrel length in 5.56x45mm.

The hyper-expanding hollow-point bullet deposits its energy by immediately expanding upon hitting the target. It provides excellent stopping power on soft targets, and tends to maintain the point-of-aim bullet track. The risk of overpenetration is minimized, reducing the chances of collateral damage.

Due to tight production tolerances, constant ballistic values are guranteed. Strict quality controls lead to identical ballistics regardless of the batch.

| Cartridge | .300 Whisper | | |
|--------------------------|--------------------------|------------------------------|--|
| projectile | JHP, 8.4 g / 130 gr | | |
| projectile material | tombac jacket, lead core | | |
| ballistic coefficient G1 | 0.2497 (ICAO) | | |
| primer / propellant | SINOXID / double base po | SINOXID / double base powder | |
| case material | CuZn - alloy | | |
| cartridge weight | 15.4 g | | |
| Performance | | | |
| term of reference | C.I.P. | | |
| mean chamber pressure | max. 3 500 bar | (21°C) | |
| muzzle velocity | 650 m/s (2 133 fps) | 450 mm barrel | |
| muzzle energy | 1775 J | | |
| accuracy at 300 m | 100% diameter ≤ 200 mm | | |

| Packaging | 20 rds/cardboard box, 600 rds/cardboard box |
|-----------|---|
| | |

.300 Whisper SWISS P Final 13.0g / 200 gr

Outstanding stopping power avoids collateral damage due to total bullet disintegration

Provides a minimal accoustic profile to maintain the element of surprise

Physical and ballistic characteristics ensure subsonic flight in all environmental conditions

Best first hit probability





Application

The calibre .300 Whisper was specifically designed for subsonic shooting in urban terrain. The proportion of the chamber size and the amount of powder are optimised to ensure constant pressure build up and first hit probability.

The unique bullet made from pressed pellets instantaneously disintegrates when hitting a soft target even at subsonic speed. The penetration depth of the fragments is extremely small, minimising the risk of over penetration and increasing the safety of bystanders.

Tight production tolerances and small production batches ensure constant ballistic values and stringent quality controls guarantee identical trajectory from batch to batch.

| Cartridge | .300 Whisper | |
|--------------------------|------------------------------|---------------------|
| projectile | JPP, 13.0 g / 200 gr | |
| projectile material | tin plated tombac jacket, p | ressed lead pellets |
| ballistic coefficient G1 | 0.1643 (ICAO) | |
| primer / propellant | SINOXID / double base powder | |
| case material | CuZn - alloy | |
| cartridge weight | 21.0 g | |
| Performance | | |
| term of reference | C.I.P. | |
| mean chamber pressure | max. 3 500 bar | (21°C) |
| muzzle velocity | 315 m/s (1 033 fps) | 450 mm barre |
| muzzle energy | 645 J | |
| accuracy at 50 m | S _a ≤ 21 mm | |

| Packaging | 20 rds/cardboard box, 600 rds/cardboard box |
|-----------|---|
| 5 5 | |

.300 Win. Mag. SWISS P Ball 11.4 g / 176 gr

Match grade accuracy

Minimised muzzle flash for better concealement of the shooter

Coordinated ballistics with SWISS P Target, Styx Action, Armour Piercing and Tactical rounds





Application

Designed for Army and Police snipers, the SWISS P Ball, provides outstanding accuracy over an enhanced operation range.

The reliable primer and temperature stable powder achieve constant ballistic values and stringent quality controls guarantee identical trajectory from batch to batch.

A wide range of special purpose bullets provide the desired terminal effect on hard and soft targets on every mission. All .300 Win. Mag. SWISS P rounds have an identical point of impact at 100 m which allows the shooter to instantly change the bullet type.

| Cartridge | 7.62x67 / .300 Win. Mag. | | |
|--------------------------|--------------------------|---------------|--|
| projectile | FMJ, 11.4 g / 176 gr | | |
| projectile material | tombac jacket, lead core | | |
| ballistic coefficient G1 | 0.5332 (ICAO) | | |
| primer / propellant | SINOXID / double base po | owder | |
| case material | CuZn - alloy | | |
| cartridge weight | 31.5 g | | |
| Performance | | | |
| term of reference | C.I.P. | | |
| mean chamber pressure | max. 4300 bar | (21°C) | |
| muzzle velocity | 865 m/s (2 838 fps) | 650 mm barrel | |
| muzzle energy | 4 265 J | | |
| accuracy at 300 m | S _a ≤ 32 mm | | |
| | | | |

| Packaging | 20 rds/cardboard box, 200 rds/cardboard box |
|-----------|---|
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.300 Win. Mag. SWISS P Target 13.0g / 200 gr

The most accurate .300 Win. Mag. round

Minimised muzzle flash for better concealement of the shooter

Coordinated ballistics with SWISS P Ball, Styx Action, Armour Piercing and Tactical rounds





Application

This is the perfect round for highly accurate long range target shooting in competition and training.

Tight production tolerances and small production batches ensure constant ballistic values and stringent quality controls guarantee identical trajectory from batch to batch.

A wide range of special purpose bullets provide the desired terminal effect on hard and soft targets on every mission. All .300 Win. Mag. SWISS Prounds have an identical point of impact at 100 m which allows the shooter to instantly change the bullet type.

The .300 Win. Mag. SWISS P Target is also available with a 14.3 g / 220 gr bullet.

| Cartridge | 7.62x67 / .300 Win. Mag | g. |
|--------------------------|--------------------------|---------------|
| projectile | HPBT, 13.0 g / 200 gr | |
| projectile material | tombac jacket, lead core | |
| ballistic coefficient G1 | 0.5774 (ICAO) | |
| primer / propellant | SINOXID / double base po | owder |
| case material | CuZn - alloy | |
| cartridge weight | 33.0 g | |
| Performance | | |
| term of reference | C.I.P. | |
| mean chamber pressure | max. 4 300 bar | (21°C) |
| muzzle velocity | 870 m/s (2855 fps) | 650 mm barrel |
| muzzle energy | 4 920 J | |
| accuracy at 300 m | S _a ≤ 25 mm | |
| | | |

| Packaging | 20 rds/cardboard box, 200 rds/cardboard box |
|-----------|---|
|-----------|---|

.300 Win. Mag. SWISS P Target 14.3 g / 220 gr

The most accurate .300 Win. Mag. round

Extended supersonic range ensures improved accuracy and greater energy on target

Minimised muzzle flash for better concealement of the shooter

Coordinated ballistics with SWISS P Ball, Styx Action, Armour Piercing and Tactical rounds





Application

This is the perfect round for highly accurate long range target shooting in competition and training.

Tight production tolerances and small production batches ensure constant ballistic values and stringent quality controls guarantee identical trajectory from batch to batch.

A wide range of special purpose bullets provide the desired terminal effect on hard and soft targets on every mission. All .300 Win. Mag. SWISS Prounds have an identical point of impact at 100 m which allows the shooter to instantly change the bullet type.

The .300 Win. Mag. SWISS P Target is also available with a 13.0 g / 200 gr bullet.

| Cartridge | 7.62x67 / .300 Win. Mag | g. |
|--------------------------|--------------------------|---------------|
| projectile | HPBT, 14.3 g / 220 gr | |
| projectile material | tombac jacket, lead core | |
| ballistic coefficient G1 | 0.6533 (ICAO) | |
| primer / propellant | SINOXID / double base po | wder |
| case material | CuZn - alloy | |
| cartridge weight | 34.2 g | |
| Performance | | |
| term of reference | C.I.P. | |
| mean chamber pressure | max. 4300 bar | (21°C) |
| muzzle velocity | 845 m/s (2 772 fps) | 650 mm barrel |
| muzzle energy | 5 105 J | |
| accuracy at 300 m | S ₂ ≤ 25 mm | |

| Packaging | 20 rds/cardboard box, 200 rds/cardboard box |
|-----------|---|
| | |

.300 Win. Mag. SWISS P Styx Action 12.8g / 198 gr

Outstanding stopping power while reducing the risk of collateral damage

Match grade accuracy

Coordinated ballistics with SWISS P Ball, Target, Armour Piercing and Tactical rounds





| Αp | p | lica | tion |
|------|---|------|------|
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The hyper expanding hollow point bullet immediately deposits its energy within a very short distance providing excellent stopping power on soft targets and is direction stable.

The sophisticated bullet tip provides an absolutely reliable hyper expansion to approximately the double of its original diameter.

Tight production tolerances and small production batches ensure constant ballistic values and stringent quality controls guarantee identical trajectory from batch to batch.

A wide range of special purpose bullets provide the desired terminal effect on hard and soft targets on every mission. All .300 Win. Mag. SWISS P rounds have an identical point of impact at 100 m which allows the shooter to instantly change the bullet type.

| Cartridge | 7.62x67 / .300 Win. Mag | j . |
|--------------------------|--------------------------|---------------|
| projectile | HPBT, 12.8 g / 198 gr | |
| projectile material | tombac jacket, lead core | |
| ballistic coefficient G1 | 0.6116 (ICAO) | |
| primer / propellant | SINOXID / double base po | wder |
| case material | CuZn - alloy | |
| cartridge weight | 33.0 g | |
| Performance | | |
| term of reference | C.I.P. | |
| mean chamber pressure | max. 4 300 bar | (21°C) |
| muzzle velocity | 880 m/s (2887 fps) | 650 mm barrel |
| muzzle energy | 4 983 J | |
| accuracy at 300 m | S ₂ ≤ 27 mm | |

| Packaging | 20 rds/cardboard box, 200 rds/cardboard box |
|-----------|---|
| | |

.300 Win. Mag. SWISS P AP 12.7 g / 196 gr

The most accurate Armour Piercing round

The tungsten carbide core provides outstanding penetration power

Extended barrel durability due to a patented projectile design

Coordinated ballistics with SWISS P Ball, Target, Styx Action and Tactical rounds





Application

The tungsten carbide core is much harder and more ductile than most targets which makes it unstoppable for light armour. Because the core does not break apart during penetration, it transfers outstanding residual energy to the target.

Using only high quality raw materials and producing within tight tolerances ensures outstanding accuracy from batch to batch.

A wide range of special purpose bullets provide the desired terminal effect on hard and soft targets on every mission. All .300 Win. Mag. SWISS P rounds have an identical point of impact at 100 m which allows the shooter to instantly change the bullet type.

| Cartridge | 7.62x67 / .300 Win. Mag. | | |
|--------------------------|----------------------------|--|--|
| projectile | AP, 12.7 g / 196 gr | AP, 12.7 g / 196 gr | |
| projectile material | tombac jacket, tungsten ca | tombac jacket, tungsten carbide and lead cores | |
| ballistic coefficient G1 | 0.6066 (ICAO) | 0.6066 (ICAO) | |
| primer / propellant | SINOXID / double base po | SINOXID / double base powder | |
| case material | CuZn - alloy | | |
| cartridge weight | 33.0 g | | |
| Performance | | | |
| term of reference | C.I.P. | | |
| mean chamber pressure | max. 4 300 bar | (21°C) | |
| muzzle velocity | 855 m/s (2 805 fps) | 650 mm barrel | |
| muzzle energy | 4 642 J | | |
| accuracy at 300 m | S _a ≤35 mm | | |
| | | | |

.300 Win. Mag. SWISS P Tactical 12.1 g / 186 gr

Excellent first hit probability of targets behind angled glass

No projectile deflection and fragmentation ensure the safety of bystanders

Coordinated ballistics with SWISS P Ball, Target, Styx Action and Armour Piercing rounds





Application

The challenge is to accurately hit targets behind an angled window or wind shield without the risk of unpredictable bullet deflection. This could endanger bystanders, especially if the shooting line is not perpendicular to the window.

Conventional bullets break apart or fragment when penetrating glass which makes accurate shooting impossible. At least 90% of the residual body of the SWISS P Tactical bullet stays intact and it does not fragment at all.

Tight production tolerances and small production batches ensure constant ballistic values and stringent quality controls guarantee identical trajectory from batch to batch.

All .300 Win. Mag. SWISS P rounds have an identical point of impact at 100 m which allows the shooter to instantly change the bullet type.

| Cartridge | 7.62x67 / .300 Win. Mag | g. |
|--------------------------|------------------------------|---------------|
| projectile | SFNBT, 12.1 g / 186 gr | |
| projectile material | CuZn - alloy | |
| ballistic coefficient G1 | 0.2998 (ICAO) | |
| primer / propellant | SINOXID / double base powder | |
| case material | CuZn - alloy | |
| cartridge weight | 32.0 g | |
| Performance | | |
| term of reference | C.I.P. | |
| mean chamber pressure | max. 4 300 bar | (21°C) |
| muzzle velocity | 870 m/s (2854 fps) | 650 mm barrel |
| muzzle energy | 4 579 J | |
| accuracy at 300 m | S _a ≤18 mm | |
| | a - | |

| Packaging | 20 rds/cardboard box, 200 rds/cardboard box |
|-----------|---|
| | |

.338 Lapua Mag. SWISS P Ball 16.3 g / 251 gr

Match grade accuracy

Minimised muzzle flash for better concealement of the shooter

Temperature independent propellant guarantees a consistent point of impact

Coordinated ballistics with SWISS P Target, Styx Action, Armour Piercing and Tactical rounds





Application

Designed for Army snipers, the SWISS P Ball, provides outstanding accuracy over an enhanced operation range.

The reliable primer and temperature stable powder achieve constant ballistic values and stringent quality controls guarantee identical trajectory from batch to batch.

A wide range of special purpose bullets provide the desired terminal effect on hard and soft targets on every mission. All .338 Lapua Mag. SWISS P rounds have an identical point of impact at 300 m which allows the shooter to instantly change the bullet type.

| Cartridge | 8.6x70 / .338 Lapua Ma | g. |
|--------------------------|--------------------------|---------------|
| projectile | FMJ, 16.3 g / 251 gr | |
| projectile material | tombac jacket, lead core | |
| ballistic coefficient G1 | 0.6571 (ICAO) | |
| primer / propellant | SINOXID / double base po | wder |
| case material | CuZn - alloy | |
| cartridge weight | 44.5 g | |
| Performance | | |
| term of reference | C.I.P. | |
| mean chamber pressure | max. 4200 bar | (21°C) |
| muzzle velocity | 855 m/s (2805 fps) | 650 mm barrel |
| muzzle energy | 5 958 J | |
| accuracy at 300 m | S _a ≤ 26 mm | |

| Packaging | 20 rds/cardboard box, 200 rds/cardboard box |
|-----------|---|
| | |

.338 Lapua Mag. SWISS P Target 16.2 g / 250 gr

The most accurate .338 Lapua Mag. round

Minimised muzzle flash for better concealement of the shooter

Temperature independent propellant guarantees a consistent point of impact

Coordinated ballistics with SWISS P Ball, Styx Action, Armour Piercing and Tactical rounds



Application

This is the perfect round for highly accurate long range target shooting in competition and training.

Tight production tolerances and small production batches ensure constant ballistic values and stringent quality controls guarantee identical trajectory from batch to batch.

A wide range of special purpose bullets provide the desired terminal effect on hard and soft targets on every mission. All .338 Lapua Mag. SWISS P rounds have an identical point of impact at 300 m which allows the shooter to instantly change the bullet type.

The .338 Lapua Mag. SWISS P Target is also available with a 19.4 g / 300 gr bullet.

| HPBT, 16.2 g / 250 gr | |
|------------------------------|--|
| | |
| tombac jacket, lead core | |
| 0.6839 (ICAO) | |
| SINOXID / double base powder | |
| CuZn - alloy | |
| 44.4 g | |
| | |
| C.I.P. | |
| max. 4 200 bar | (21°C) |
| 865 m/s (2 838 fps) | 650 mm barrel |
| 6 061 J | |
| S _a ≤ 25 mm | |
| | 0.6839 (ICAO) SINOXID / double base por CuZn - alloy 44.4 g C.I.P. max. 4 200 bar 865 m/s (2 838 fps) 6 061 J |

| Packaging | 20 rds/cardboard box, 200 rds/cardboard box |
|-----------|---|
|-----------|---|

.338 Lapua Mag. SWISS P Target 19.4 g / 300 gr

The most accurate .338 Lapua Mag. round

Extended supersonic range ensures improved accuracy and greater energy on target

Temperature independent propellant guarantees a consistent point of impact

Coordinated ballistics with SWISS P Ball, Styx Action, Armour Piercing and Tactical rounds



Application

This is the perfect round for highly accurate long range target shooting in competition and training.

Tight production tolerances and small production batches ensure constant ballistic values and stringent quality controls guarantee identical trajectory from batch to batch.

A wide range of special purpose bullets provide the desired terminal effect on hard and soft targets on every mission. All .338 Lapua Mag. SWISS P rounds have an identical point of impact at 300 m which allows the shooter to instantly change the bullet type.

The .338 Lapua Mag. SWISS P Target is also available with a 16.2 g / 250 gr bullet.

| Cartridge | 8.6x70 / .338 Lapua Ma | g. |
|--------------------------|--------------------------|---------------|
| projectile | HPBT, 19.4 g / 300 gr | |
| projectile material | tombac jacket, lead core | |
| ballistic coefficient G1 | 0.8311 (ICAO) | |
| primer / propellant | SINOXID / double base po | wder |
| case material | CuZn - alloy | |
| cartridge weight | 47.6 g | |
| Performance | | |
| term of reference | C.I.P. | |
| mean chamber pressure | max. 4200 bar | (21°C) |
| muzzle velocity | 835 m/s (2 739 fps) | 650 mm barrel |
| muzzle energy | 6 763 J | |
| accuracy at 300 m | S _a ≤ 28 mm | |

| Packaging 20 rds/cardboard box, 200 rds/cardboard box | Packaging | 20 rds/cardboard box, 200 rds/cardboard box |
|---|-----------|---|
|---|-----------|---|

.338LapuaMag.SWISSPStyxAction 16.0 g / 247 gr

Outstanding stopping power while reducing the risk of collateral damage

Match grade accuracy

Temperature independent propellant guarantees a consistent point of impact

Coordinated ballistics with SWISS P Ball, Target, Armour Piercing and Tactical rounds





Application

The hyper expanding hollow point bullet immediately deposits its energy within a very short distance providing excellent stopping power on soft targets and is direction stable.

The sophisticated bullet tip provides an absolutely reliable hyper expansion to approximately the double of its original diameter.

Tight production tolerances and small production batches ensure constant ballistic values and stringent quality controls guarantee identical trajectory from batch to batch.

A wide range of special purpose bullets provide the desired terminal effect on hard and soft targets on every mission. All .338 Lapua Mag. SWISS P rounds have an identical point of impact at 300 m which allows the shooter to instantly change the bullet type.

| Cartridge | 8.6x70 / .338 Lapua Ma | g. |
|--------------------------|--------------------------|---------------|
| projectile | HPBT, 16.0 g / 247 gr | |
| projectile material | tombac jacket, lead core | |
| ballistic coefficient G1 | 0.4328 (ICAO) | |
| primer / propellant | SINOXID / double base po | wder |
| case material | CuZn - alloy | |
| cartridge weight | 44.2 g | |
| Performance | | |
| term of reference | C.I.P. | |
| mean chamber pressure | max. 4 200 bar | (21°C) |
| muzzle velocity | 875 m/s (2871 fps) | 650 mm barrel |
| muzzle energy | 6 125 J | |
| accuracy at 300 m | S ₂ ≤ 27.5 mm | |

| Packaging | 20 rds/cardboard box, 200 rds/cardboard box |
|-----------|---|

.338 Lapua Mag. SWISS P AP 16.8g / 260 gr

The most accurate Armour Piercing round

The tungsten carbide core provides outstanding penetration power

Temperature independent propellant guarantees a consistent point of impact

Coordinated ballistics with SWISS P Ball, Target, Styx Action and Tactical rounds





Application

The tungsten carbide core is much harder and more ductile than most targets which makes it unstoppable for light armour. Because the core does not break apart during penetration, it transfers outstanding residual energy to the target.

Using only high quality raw materials and producing within tight tolerances ensures outstanding accuracy from batch to batch.

A wide range of special purpose bullets provide the desired terminal effect on hard and soft targets on every mission. All .338 Lapua Mag. SWISS P rounds have an identical point of impact at 300 m which allows the shooter to instantly change the bullet type.

The .338 Lapua Mag. SWISS P Armour Piercing is also available with a 19.4 g / 300 gr bullet.

| Cartridge | 8.6x70 / .338 Lapua Mag | g. |
|--------------------------|--|---------------|
| projectile | AP, 16.8 g / 260 gr | |
| projectile material | tombac jacket, tungsten carbide and lead cores | |
| ballistic coefficient G1 | 0.6773 (ICAO) | |
| primer / propellant | SINOXID / double base powder | |
| case material | CuZn - alloy | |
| cartridge weight | 45.0 g | |
| Performance | | |
| term of reference | C.I.P. | |
| mean chamber pressure | max. 4 200 bar | (21°C) |
| muzzle velocity | 847 m/s (2 789 fps) | 650 mm barrel |
| muzzle energy | 6 026 J | |
| accuracy at 300 m | S _a ≤ 25.5 mm | |

| Packaging | 20 rds/cardboard box, 200 rds/cardboard box |
|-----------|---|
| | |

.338 Lapua Mag. SWISS P API 16.9 g / 261 gr

The most accurate Armour Piercing Incendiary round

The tungsten carbide core provides maximum penetration power, while the titanium tip provides incendiary marking

Coordinated ballistics with SWISS P Ball, Target, Styx Action and Armour Piercing rounds





Application

The tungsten carbide core is made from one of the hardest metals known to man, and resists deformation even when striking armor. Because the core stays intact during penetration it transfers extremely effective residual energy to targets that would ordinarily be shielded by light armor.

When the titanium tip strikes the target the energy transfer converts it into brightly glowing sparks, easily marking point of impact for the spotter. Since this cartridge contains no incendiary chemicals, it is not subject to the restrictive packaging, handling, and transportation issues suffered with standard API Cartridges.

Using only high quality raw materials and producing within tight tolerances ensures outstanding accuracy. Due to tight production tolerances, constant ballistic values are guranteed. Strict quality controls lead to identical ballistics regardless of the batch.

| Cartridge | 8.6x70 / .338 Lapua Mag. | |
|--------------------------|----------------------------------|---------------|
| projectile | API, 16.2 g / 250 gr | |
| projectile material | CuZn - Tungstencarbide -Titanium | |
| ballistic coefficient G1 | 0.6785 (ICAO) | |
| primer / propellant | SINOXID / double base powder | |
| case material | CuZn - alloy | |
| cartridge weight | 44.4 g | |
| Performance | | |
| term of reference | C.I.P. | |
| mean chamber pressure | max. 4 200 bar | (21°C) |
| muzzle velocity | 847 m/s (2 779 fps) | 650 mm barrel |
| muzzle energy | 6 076 J | |
| accuracy at 300 m | S ₂ ≤ 25 mm | |

| Packaging | 20 rds/cardboard box, 200 rds/cardboard box |
|-----------|---|
| | |

.338 Lapua Mag. SWISS P Tactical 16.2 g / 250 gr

Excellent first hit probability of targets behind angled glass

No projectile deflection and fragmentation ensure the safety of bystanders

Coordinated ballistics with SWISS P Ball, Target, Styx Action and Armour Piercing rounds





Application

The challenge is to accurately hit targets behind an angled window or wind shield without the risk of unpredictable bullet deflection. This could endanger bystanders, especially if the shooting line is not perpendicular to the window.

Conventional bullets break apart or fragment when penetrating glass which makes accurate shooting impossible. At least 90% of the residual body of the SWISS P Tactical bullet stays intact and it does not fragment at all.

Tight production tolerances and small production batches ensure constant ballistic values and stringent quality controls guarantee identical trajectory from batch to batch.

| Contridge 9 6 v 70 / 229 Longo Mag | | | |
|------------------------------------|------------------------------|---------------|--|
| Cartridge | 8.6x70 / .338 Lapua Mag. | | |
| projectile | SFNBT, 16.2 g / 250 gr | | |
| projectile material | CuZn - alloy | | |
| ballistic coefficient G1 | 0.3751 (ICAO) | | |
| primer / propellant | SINOXID / double base powder | | |
| casematerial | CuZn - alloy | | |
| cartridge weight | 44.4 g | | |
| Performance | | | |
| term of reference | C.I.P. | | |
| mean chamber pressure | max. 4200 bar | (21°C) | |
| muzzle velocity | 860 m/s (2821 fps) | 650 mm barrel | |
| muzzle energy | 5 591 J | | |
| accuracy at 300 m | S _a ≤ 28 mm | | |
| | | | |

| Packaging | 20 rds/cardboard box, 200 rds/cardboard box |
|-----------|---|
| | |

.338 Lapua Mag. SWISS P Subsonic 19.4 g / 300 gr

Enhanced projectile weight provides greater energy on target

Physical and ballistic characteristics ensure subsonic flight in all environmental conditions

Best first hit probability due to a special loading technique

Blue marked primer ensures proper selection





Application

The extra heavy bullet provides additional energy to achieve an enhanced target effect.

The highly precise loading technique allows a cartridge load very close to the sound barrier, but without risking a supersonic bang. Even at subsonic speed, the heavy bullet provides enough energy to achieve a good terminal target effect.

The .338 Lapua Mag. SWISS P Subsonic is also available with a $16.2~{\rm g}$ / $250~{\rm gr}$ bullet.

| Cartridge | 8.6x70 / .338 Lapua Mag. | |
|--------------------------|------------------------------|----------------------|
| projectile | HPBT, 19.4 g / 300 gr | |
| projectile material | tombac jacket, lead core | |
| ballistic coefficient C1 | 0.650 (ICAO) | |
| primer / propellant | SINOXID / double base powder | |
| case material | CuZn - alloy | |
| cartridge weight | 44.0 g | |
| Performance | | |
| term of reference | C.I.P. | |
| mean chamber pressure | max. 2 500 bar | (21°C) |
| muzzle velocity | 315 m/s (1 033 fps) | 27"barrel 1:10"twist |
| muzzle energy | 962 J | |
| accuracy at 100 m | 100% radius ≤ 55 mm | |
| | | |

| Packaging | 20 rds/cardboard box, 200 rds/cardboard box |
|-----------|---|

.338 Lapua Mag. Blank

Unique solution for live combat simulation training

Designed for perfect weapon's feed RUAG is the only worldwide supplier



Application

The Blank cartridge is a non-lethal round perfectly suitable for combat simulation and training in weapons handling.

It has been designed to provide a reliable weapon function under extreme weather conditions and temperature fluctuations without effecting the weapon durability or causing excessive barrel strain.

| Cartridge 8.6x70 / .338 Lapua Mag. | |
|------------------------------------|------------------------------|
| primer / propellant | SINOXID / double base powder |
| case material | CuZn - alloy |
| cartridge weight | 26.0 g |
| | |
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