

Technical Specification**1. Cartq SA 7.62mm Rifle Ball with Steel Core Bullet Rimmed**

Ref: Contract No (P/1635606131699) PC A/15267/7.62mm PKT/EEC-RUSSIA/PRO-3
dated 30 Nov 2016.

SI No	Technical Parameters	Specified values
(a)	Average Bullet Velocity V_{25} m/s	820-835
(b)	Admissible deviation $V_{25\text{ m/s}}$ Maximum	35
(c)	Maximum Powder gas pressure P_{max} , Mean MPa (Kg/sq cm)	284.4 (2900)
(d)	Maximum powder gas pressure P_{max} , Greatest, MPa (Kg/sq cm)	304 (3100)
(e)	Accuracy $R_{50\text{av}}$, cm at 300m max	9.0
(f)	Cartridge mass (g) max	23.2 g
(g)	Bullet mass (g) max	9.75 g
(h)	Cartridge length (mm) (max)	77.16
(j)	Shelf Life	15 years

Environmental condition:

- (i) Min temp for use - $-20^{\circ}\text{C} \pm 5^{\circ}\text{C}$
- (ii) Max temp for use - $45^{\circ}\text{C} \pm 5^{\circ}\text{C}$
- (iii) Min temp for storage - -50°C
- (iv) Max temp for storage- 70°C
- (v) Max relative humidity - 95 %
- (vi) Avg relative humidity - 65 %
- (vii) Mean value of years temp - not $>32^{\circ}\text{C}$

2. Cartq SA 7.62mm Rifle Tracer with Bullet T-46 Rimmed

Ref: Contract No (P/1635606131699) PC A/15267/7.62mm PKT/EEC-RUSSIA/PRO-3 dated 30 Nov 2016.

SI No	Technical Parameters	Specified values
(a)	Average Bullet Velocity V 25 m/s	790-805
(b)	Admissible deviation V25 m/s Maximum	40
(c)	Maximum Powder gas pressure P max , Mean MPa (Kg/sq cm)	284.4 (2900)
(d)	Maximum powder gas pressure P max, Greatest, MPa (Kg/sq cm)	304.0 (3100)
(e)	Quantity of bullets with tracing time minimum 3s minimum	90%
(f)	Accuracy R50av, cm at 300m max	15.0
(g)	Cartridge mass max, g	23.2
(h)	Bullet mass max, g	9.4
(j)	Cartridge length (mm) max	77.16
(k)	Shelf Life-	15 years.

Environmental condition:

- (i) Min temp for use - $-20^{\circ}\text{C} \pm 5^{\circ}\text{C}$
- (ii) Max temp for use - $45^{\circ}\text{C} \pm 5^{\circ}\text{C}$
- (iii) Min temp for storage - -50°C
- (iv) Max temp for storage- 70°C
- (v) Max relative humidity - 95%
- (vi) Avg relative humidity - 65%
- (vii) Mean value of years temp - $\text{not} > 32^{\circ}\text{C}$

3. Cartq SA 7.62mm Rifle API with B-32 Bullet Rimmed

Ref: Contract No (P/1635606131699) PC A/15267/7.62mm PKT/EEC-RUSSIA/PRO-3 dated 30 Nov 2016.

SI No	Technical Parameters	Specified values
(a)	Average Bullet Velocity V 25 m/s	800-815
(b)	Admissible deviation V25 m/s Maximum	30
(c)	Maximum Powder gas pressure P max , Mean MPa (Kg/sq cm) max	284.4 (2900)
(d)	Maximum powder gas pressure P max, Greatest, MPa (Kg/sq cm) max	304.0 (3100)
(e)	Penetration effect at 10mm Armour plate at 200m, % minimum	80%
	Incendiary effect at metal box with petrol, which is situated behind the 10mm Armour plate, ranged at 100m, % minimum	80%
(f)	Accuracy R50av, cm at 300m max	15.0
(g)	Cartridge mass (g) max	23.2
(h)	Bullet mass (g) max	9.4
(j)	Cartridge length (mm) max	77.16
(k)	Shelf Life	15 years

Environmental condition:

- (i) Min temp for use - $-20^{\circ}\text{C} \pm 5^{\circ}\text{C}$
- (ii) Max temp for use - $45^{\circ}\text{C} \pm 5^{\circ}\text{C}$
- (iii) Min temp for storage - -50°C
- (iv) Max temp for storage- 70°C
- (v) Max relative humidity - 95%
- (vi) Avg relative humidity - 65%
- (vii) Mean value of years temp - not $> 32^{\circ}\text{C}$