GOST R 50744-95 (Revision No 3)

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| --- | --- | --- | --- | --- |
| **Class (protection level)** | **Ammunition / Russian Index** | **Weapon / Russian Index** | **Bullet** | **Shot distance, m** |
| **Russian codename** | **Core type** | **Mass, g** | **Velosity, m/s** |
| S | Stab (cold steel arms) | Bayonet 6x5, factory grind | - | - | - | 49+/-1 J | - |
| S1 | 18,5 mm hunting cartridge | 12-caliber hunting rifle |  | lead | 34,0+/-1,0 | 340 - 410 | 5.0 ± 0.1 |
| S2 | fragment | Ballistic barrel without rifing | - | Steel ball d=6,35 mm | 1,05 | V50% | - |
| Br 1 | 9x18 mm /57-Н-181С | 9-mm APS (automatic pistol Stechkin) /56-А-126 | Пст | Steel | 5.9 | 335 ± 10 | 5.0 ± 0.1 |
| Br 2 | 9x21 mm /7Н28 | 9-mm SR-1 (Serdukov)/6П53 | П | Lead | 7.93 | 390 ± 10 | 5.0 ± 0.1 |
| Br 3 | 9x19 mm /7Н21 | 9-mm PYa (Yarygin) /6П35 | Пст | Heat-treated Steel AP | 5.2 | 455 ± 10 | 5.0 ± 0.1 |
| Br4 | 1. 5.45x39 mm/7H10
2. 7.62x39 mm/57-H-231
 | 5,45 mm AK74/ 6П207,62 mm AKM/6П1 | ПППС | APAP | 3.57.9 | 895+/-15720+/-15 | 10+/-0.110+/-0.1 |
| Br5 | 1. 7.62x54 mm/7H13
2. 7.62x54 mm/7-Б3-3
 | 7.62 mm Dragunov (SVD)/6B17.62 mm Dragunov (SVD)/6B1 | ППБ32 | APAPI | 9.410.4 | 830+/-15810+/-15 | 10+/-0.110+/-0.1 |
| Br 6 | 12.7x108 mm/57-Б3-542 | 12,7 mm OSV-96  http://world.guns.ru/sniper/large-caliber-sniper-rifles/rus/osv-96-r.html | Б32 | API | 48.2 | 830+/-20 | 50+/-0.5 |
|  |  |  |  |  |  |  |  |

Tab 1

To add part 4 of the present Standard by items 4.4, 4.5

4.4. ballistic properties of the armor in accordance to each class are detected by the certain of shots:

- rifles – not less than 5 shots

- smooth-bore weapon – not less than 2 shots

The distance between the edge of the ballistic panel and the center of the shot (by bullet of fragment) as well as the centers of shots, should be not less than 5 calibers of the thread (if another wasn’t mentioned in the technical terms and conditions (TT&C) for the exact product).

In case the size of the ballistic panel doesn’t allow to provide 5 shots at once it is allowed to test two equal panels with two shots into each.

4.5. The use of ballistic barrels identical to the weapons mentioned in the Table is allowed.

Items 5.1.1.2 – 5.1.1.4 are changed as following:

\*5.1.1.2 Means of protection had to correspond the protection of the human been in accordance to the requirements mentioned in Table 1

5.1.1.3 The protection is evaluated in accordance to the Table 3

Table 3

|  |  |
| --- | --- |
| Class of protection | Estimate of resistance of means of protection to the threads |
| nomination | Allowable value |
| C1, Br 1-5 | Bulletproof properties | The absence of the penetration of the ballistic panel by the bullets, its fragments or any secondary fragments  |
| C1, Br 1-5 | Trauma level | Not more than level 2 (Appendix B, table B1) |
| C | Penetration (length of blade outside) determined on the backface of the protective panel  | Not more than 5 mm |
| C2 | Antifragmentation properties | The value is determined in accordance with the TT&C of the exact product |

5.1.1.4 The design of the means of protection should ensure compliance with the requirements mentioned in TT&C for the exact product as following:

- protection class (bulletproof protection)

- trauma level (BABT)

- dimensions and weight

To add the item 5.1.1.5 to Part 5

\*5.1.1.5 BABT is determined on the final stage of the development of the body armor by the accredited labs

Item 5.1.2.1 to be change as following:

\*5.1.2.1 The body armor design had to provide ballistic properties under

- temperature from minus 40oC to plus 40oC

- after water influence.

Items 5.1.3.1, 5.1.3.2 – to be excluded

Item 5.1.3.4 is changed as following:

It is allowed to design the body armor combined the different protection levels (classes)…

Appendix A

Comparison between Classes of protection (GOST) and protection levels of the US and German standards

|  |  |
| --- | --- |
| Protection class of body armor | Protection levels |
| GOST “old” version | GOST actual version | USA | Germany |
| 122a3 | Br1Br2C1Br3 | 12a-23a3 | -123 |
| 45 | Br4 | 44 | 44 |
| 5a66a | Br5 | 44- | --- |