Military armor

DIN EN 1063 [BR]

VR 1
VR 2
VR 3
VR 4
VR 5

Particularities:

1) Ballistic testing shall be conducted at the most severe impact condition allowable. Computation of bullet velocity is performed based on at least three tests. The test conditions are determined by the manufacturer and the National Authority.

2) Exact procedure and Steelball described in GOST 3722.

3) Test barrel with a transition of 7.5 mm.

4) Vehicle targets are the best target samples for SWA evaluation. Fully engineered targets may be used as long as the SWA are constructed in the exact same manner as for the actual vehicle.

5) Could be reduced to 10 shots for levels 1 to 3, 6 shots for level 4 and 4 shots for level 5, if the back surface damage is judged by National Authority to give full confidence that further rounds will produce no CP.

6) 10 (single hit tests) (630 ± 20)7) 0° - 360° 0° - 22° 5 (single hit tests) 3 (single hit tests)

Target Conformance:

- Test results meeting ballistics standard can be used as evidence of compliance with STANAG 4569 KE Level X (PARTIAL).

- Any vehicle successfully assessed using the alternative requirements specified shall be classified as compliant with STANAG 4569 KE Level X (PARTIAL).

- Test relevant parameters:
  - Angle of incidence: no greater than 5°.
  - Twist rates: 178 mm ± 5%.
  - Shot Distance: 5 m
  - Mass: 124 gr
  - Length: 4.0 ± 0.2
  - Diameter: 9.7 ± 0.1
  - Hardness: 62 ± 2 HRC
  - Core Diameter: 4.0 ± 0.2

Ammunition and Projectile Test Conditions

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Secondary spall

Primary spall

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