30×165 mm

General

Single base seven perforated propellant cylindrical grain (6/7) contains Nitrocellulose (NC), Diphenylamine (DPA) and additives. It is glazed with graphite.
This propellant is used in 30×165 mm cartridge for 2A42 automatic gun or equivalent (armored personnel carrier)

TECHNICAL SPECIFICATIONS

Length	4.5 ± 0.3 mm
Hole diameter	0.10 – 0.25 mm
Internal Web thickness	0.5 ± 0.2 mm
External Web thickness	0.65 ± 0.15 mm
Diphenylamine (DPA)	1-2 %
Residue solvent	≥ 0.3 %
External moisture	≥ 0.5 %
Total volatile	≤ 3.5 %
Heat of explosion	≤ 920 cal/gr
Stability at 134.5 °C	≥ 60 min

BALLISTIC SPECIFICATIONS

Total charge	~ 120 gr
Average Velocity (HEI)	960 ± 10 m/s
Average Velocity (APT)	970 ± 10 m/s
Std. dev. of velocity	≤ 10 m/s
Average Pressure at +21°C	≤ 3600 kg/cm²
Pressure of single round at 21°C, +71°C and -33°C	≤ 3800 kg/cm²

35×228 mm

General

Single base one perforated propellant cylindrical grain contains Nitrocellulose (NC), Diphenylamine (DPA), Camphor and additives. It is glazed with graphite.
This propellant is used in 35×228mm cartridge for 35mm anti-aircraft gun (automatic Oerlikon gun or equivalent).

* Measured by copper crusher

TECHNICAL SPECIFICATIONS

Length	2.2-3.0 mm
Diameter	1.7-2.0 mm
Hole diameter	0.10 - 0.25 mm
Web thickness	0.7 - 1.0 mm
Diphenylamine (DPA)	1-2 %
Moisture	0.8 – 1.3 %
Heat of explosion	≤ 750 cal/gr
Stability at 134.5 °C	≥ 40 min

BALLISTIC SPECIFICATIONS

Total charge	~ 340 gr
Average Velocity (HEI)	1175 ± 15 m/s
Std. dev. of velocity	≤ 10 m/s
Average Pressure at +21°C	≤ 3600 bar
Pressure of single round at 21°C, +71°C and -33°C	≤ 3900 bar