



PROPELLANEX

VULKAN-225

VULKAN-225 is an intermediate rifle propellant developed by Propellanex S.A. for use in carbine-class military rifles. It is a clean-burning, temperature-stable single-base powder designed for modern 7.62x39mm-class cartridges.

APPLICATION

Designed for intermediate cartridges including 7.62×39mm, .300 BLK, 6.8 SPC, and others. Used in AK, AR, and hybrid-platform rifles for combat and security operations.



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CHEMICAL AND PHYSICAL PROPERTIES

PROPERTY	SPECIFICATION
Composition	Single-base nitrocellulose
Grain Geometry	Tubular stick (0.85–1.25 mm length, 0.07–0.15 mm perforation)
Coating	Graphite-coated for flow and ignition consistency
Stabilizer	Diphenylamine derivative
Vieille Test (Initial)	≥7 hours at 106.5 °C
Vieille Test (10x Repeat)	≥60 hours at 106.5 °C

CHEMICAL AND PHYSICAL PROPERTIES

METRIC	VALUE
Nominal Charge Weight	1.6 g
Test Barrel Length	415 mm
Muzzle Velocity	717 ± 5 m/s
Standard Deviation	≤ 5 m/s
Mean Max Pressure (Copper Crusher)	≤ 264.8 MPa
Max of Max Pressure (Copper Crusher)	≤ 284.4 MPa

PACKAGING

Available in sealed steel drums (25 kg) and polymer-liner bulk containers (250 kg). Optional MIL-SPEC vacuum packaging on request.

STORAGE AND SAFETY

Store in a dry, well-ventilated area below 50°C. Avoid sparks, flame, or static discharge. Comply with national and international explosive storage regulations.

