



01 / PRODUCT OVERVIEW

GRAD

122 mm HE artillery rocket GRAD



FIG 01 PRODUCT CONFIGURATION

122 mm

CALIBRE

**20.1 km at 48.48
deg elevation**

RANGE

66 kg

TOTAL MASS

2875 mm

LENGTH

01.1 / OVERVIEW

Unguided 122 mm high-explosive rocket with twin combustion chamber motor and drag-increasing aerodynamic ring, range 20.1 km.

TYPE

HE

CALIBRE

122 mm

STANDARD

Eastern

PROCUREMENT AND COMPLIANCE

Supply is exclusively for government and institutional end-users. Availability is subject to destination screening, a state-issued export licence and a verified End-User Certificate.



02 / TECHNICAL SPECIFICATION

TECHNICAL DATA

GRAD / AMMUNITION

IDENTITY AND CONSTRUCTION

Calibre	122 mm
Warhead mass with fuze	19.1 kg

BALLISTIC PERFORMANCE

Range	20.1 km at 48.48 deg elevation
Temperature range	-30 to +50 deg C

DIMENSIONS, MASS AND SUPPLY

Length	2875 mm
Total mass	66 kg
Propellant mass	20.45 kg

ADDITIONAL TECHNICAL DATA

Motor total impulse	39700 Ns
Motor specific impulse	1940 Ns/kg (198 s)
Motor	Twin combustion chamber, twin grain