

## **“G-2000” MLRS GRAD 122MM ARTILLERY ROCKET**



Rocket G-2000 is currently the longest range rocket on the market within its caliber. Its rocket motor has a completely new state of the art design. Warhead with fuse, the rocket guide and contact cover are identical to the original rocket GRAD.

Rocket “G-2000” is fully compatible with the mobile multi tube rocket launchers such as BM-21 and RM-70, or similar existing launchers.

Propellant grain is a single cylindrically shaped piece, which is inhibited along the outer surface and front end. It contains two types of propellant, which differ in burning rate. This has resulted in a high level loading factor, almost neutral burning and minimization of the silver being used.

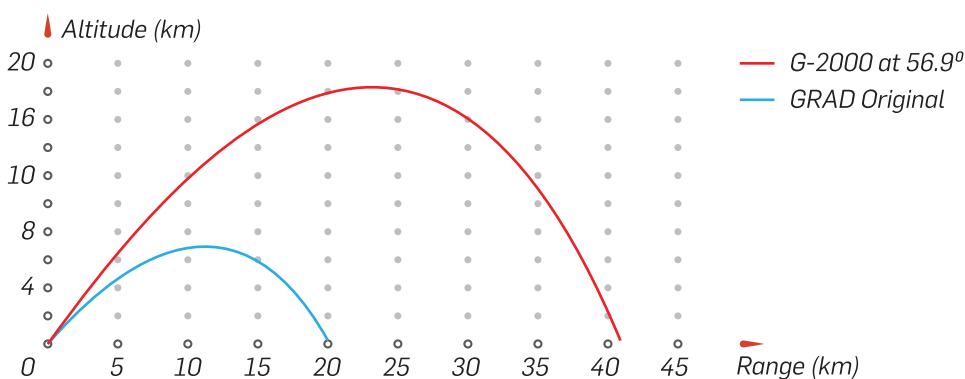
Rocket propellant used for grain production is a modern thermoplastic composite propellant with a high percentage of aluminium, with burning temperatures exceeding 3000K and with a high value of specific impulse.

The steel nozzle with abounded ablative materials has one graphite throat.

*Comparative technical characteristics of the G-2000 rocket regarding original GRAD rocket:*

TECHNICAL CHARACTERISTICS	"GRAD ORIGINAL"	G-2000	UNITS
Caliber	122	122	mm
Length	2875	2875	mm
Temperature range	-30 ~ +50	-30 ~ +50	°C
Total mass	66	69.0	kg
Warhead mass with fuse	19.1	19.1	kg
Propellant mass	20.45	27.3	kg
Burning time	2.0	2.7	s
Total motor impulse	39700	62800	Ns
Specific motor impulse	1941	2300	Ns/kg
Max. Velocity at Xe.	690.6	1100	m/s
Top of the Trajectory at Xe.	7100	17800	m
Time of Flight at Xe.	76	126	s
Elevation	50.0	56.9	°
Range (Xe.)	20.3	40.2	km
CEP at max. range	1.27	0.96	%

*Altitude and range charts*



- Maximum range at sea level 40.2 km
- Maximum range H (600 m) = 43 km
- Maximum range H (1500 m) = 49 km



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