



81 mm (HE, LR, LR-AS)



GENERAL SPECIFICATIONS

The high flexibility and easy handling on one hand and the accuracy of operation on the other hand, have made mortars to be considered as the most worldwide suitable weapon in infantry fighting, particularly in hilly or jungle terrains fields.

The 81mm mortar shell is one of the mortar bombs produced by Iran Defence Industries and characterized by the special process of production and high quality material for the body, resulting in more effective blast and fragments and higher lethality for the ammunition. It is equipped with AZ111-A2 fuze with 2 positions (delayed and quick impact).

Long range: Long range type of 81mm mortar bomb is an improved type of that. The improvement is not only in the range, but also in its performance with more volume of explosive material. The new type has more explosive power and as a result causes much better fragments than the previous type, resulting in a better performance. All these improvements are made without any change to the mortar launchers.

LR-AS: Above-surface Long range high explosive 81mm **mortar bomb:** In this kind of mortar shell the basic fuze AZ111-A2 is replaced with AZ111-A2/AS. In case of not using above-surface mechanism it will work as an ordinary long range 81mm mortar shell, but in case of setting fuze to immediate position and using above-surface mechanism, fragments that impact target will increase 30% more and this means that effectiveness of mortar is increased.



AMMUNITION

TECHNICAL SPECIFICATIONS

Type	High Explosive	High Explosive (L-R)	High Explosive (LR-AS)
Length, Fused (mm)	369 ± 2	522 ± 2	716 ± 2
Weight, Fused (gr)	3930 ± 40	4520 ± 40	4600 ± 50
Caliber (mm)	81	81	81
Color	Olive green / Khaki	Olive green / Khaki	Olive green / Khaki
Filler Material (g)	520 TNT	960 TNT	960 TNT
Charge	6 white	1red + 5 white	1red + 5 white
Body	Forged steel	Forged steel	Forged steel
Tail	Extruded Aluminum	Extruded Aluminum	Extruded Aluminum
Fuze	AZ111-A2	AZ111-A2	AZ111-A2/AS
Primer	M35	M35	M35
Muzzle Velocity (m/s)	282.5 ± 3	314 ± 3	314 ± 3
Max. Chamber Pressure (bar)	790	790	790
Max. Range (m)	5100	6500	6000
Armament	81 mm mortars	81 mm mortars	81 mm mortars

PACKING DATA

Type	High Explosive	High Explosive (L-R)	High Explosive (LR-AS)
Quantity per Box	4	4	4
Box Weight (kg)	24 ± 2	29 ± 2	30 ± 2
Box Dim. (mm)	508 x 263 x 367	671 x 261 x 277	711 x 243 x 262
Box per Pallet	32	32	32
Pallet Dim. (mm)	1030 x 1020 x 954	1345 x 1025	1422 x 1025 x 935