



## ASSEGAI PROJECTILE FAMILY

PASSION FOR **TECHNOLOGY.**

 **RHEINMETALL**  
DENEL MUNITION

## ASSEGAI PROJECTILE FAMILY

The Rheinmetall 155 mm Assegai artillery projectile family was developed to meet the following design baseline:

- A ballistically matched family of projectiles
- Designed according to JBMoU principles
- Boat Tail and Base Bleed interchangeability on all projectiles except VLAP
- Compatibility with 39 to 52 caliber weapon systems



The Assegai family of artillery projectiles comprises:

- M2000 High Explosive (HE)
- M2000 Practice
- M2000 Practice Inert
- M0121 Insensitive Munition High Explosive (IHE)
- M0603 IHE Preformed Fragmented (PFF)
- M0256 IHE PFF Velocity Enhanced Long Range Artillery Projectile (VLAP)
- M2005 HE VLAP
- M2002 Screening Smoke
- M2004 Red Phosphorous Smoke
- M2003 Illuminating
- M0236 Infrared Illuminating

Typical performance of projectiles at 21°C with a JBMoU Modular Charge System (except V-LAP):

TECHNICAL CHARACTERISTICS	52-Calibre			39-Calibre		
	Boat tail	Base bleed	VLAP	Boat tail	Base bleed	VLAP
Muzzle velocity (m/s)	937	953	950	811	829	830
Chamber pressure (MPa)	323	348	348	282	309	309
Maximum range (km)	30	40	54	24.7	30.8	41
Consistency						
50% zone in range (%)	≤0.6	≤0.6	≤1.2	≤0.6	≤0.6	≤1.2
50% zone in azimuth (mils)	≤2.0	≤2.0	≤2.5	≤2.0	≤2.0	≤2.5
PE range (%)	≤0.3	≤0.3	≤0.6	≤0.3	≤0.3	≤0.6
PE azimuth (mils)	≤1.0	≤1.0	≤1.25	≤1.0	≤1.0	≤1.25



**PHYSICAL CHARACTERISTICS**

	Boat tail	Base bleed
Nominal mass without fuze (kg)	42.7	42.4
Length (mm)	783	792
Design pressure (MPa)	450	450
Driving band diameter (mm)	157.94	157.94
Fuze cavity	STD NATO	STD NATO
Qualification temperatures (°C)		
operational	-46 to +63	-46 to +63
storage	-51 to +71	-51 to +71

**TECHNICAL DATA OF ASSEGAJ HIGH EXPLOSIVE AND PRACTICE PROJECTILES**

Projectile	Explosive type	Explosive mass
M2000 HE	TNT/HNS	8.3 kg
M2000 Practice	INERT FILL+ RDX/Wax booster	50 g
M0121IHE	PBX	8.8 kg
M0603 IHE PFF	PBX	8.8 kg
M2005 VLAP	TNT/HNS	4.3 kg
M0256 IHE PFF VLAP	PBX	3 kg
M2000 Practice Inert	INERT FILL	0.0 kg

**TECHNICAL DATA OF ASSEGAJ CARRIER PROJECTILES**

Projectile	Pyrotechnic Mass (kg)	Burning time (s)	Performance
M2002 Scr Smoke	5.5 (5 canisters)	180	Visible and IR obscuration
M2004 RP Smoke	3.8 (RP pellets)	70	Visible and IR obscuration
M2003 Illum	2.5	90	Luminosity 1 mil candela
M0236 IR Illum	2.8	180	Radiation flux density 200 watts/steradian



**Rheinmetall Denel Munition**

PO Box 187, Somerset West  
Cape Town 7129, Republic of South Africa

**Rheinmetall Denel Munition**

Private Bag X1254  
Potchefstroom 2520, Republic of South Africa  
[marketing@rheinmetall-denelmunition.com](mailto:marketing@rheinmetall-denelmunition.com)  
[www.rheinmetall-denelmunition.com](http://www.rheinmetall-denelmunition.com)

**Rheinmetall Waffe Munition GmbH**

Heinrich-Ehrhardt-Strasse 2  
29345 Unterlüss, Germany  
[info-wm@rheinmetall.com](mailto:info-wm@rheinmetall.com)  
[www.rheinmetall.com](http://www.rheinmetall.com)