



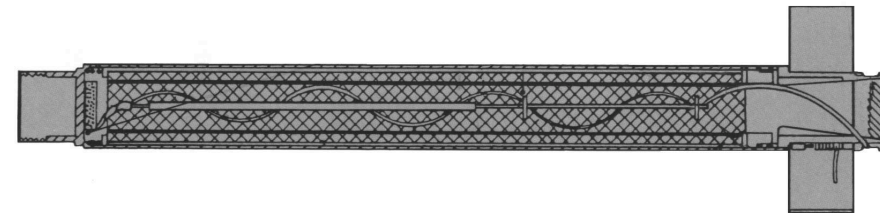
**2.75 INCH  
HYDRA ROCKET**



## 2.75 INCH HYDRA ROCKET

### MK66 ROCKET MOTOR

#### TECHNICAL CHARACTERISTICS MK66 MOTOR PART 1



LENGTH

1060 (mm)

MASS

6.17 (kg)

PROPELLANT

AA2 Double Base

BURN TIME (at 25 °C)

1.05 - 1.10 sec

AVERAGE THRUST (at 25 °C)

589.7 - 621.4

IMPULSE (at 25 °C)

680 (Kg/s)





## 2.75 INCH HYDRA ROCKET

### MK66 ROCKET MOTOR

#### TECHNICAL CHARACTERISTICS MK66 MOTOR PART 2

MOTOR BURNOUT RANGE	397 (m)
MOTOR BURNOUT VELOCITY	739 (m/s)
SPIN RATE AT LAUNCH	600 (R.P.M)
SPIN RATE IN FLIGHT	2100 (R.P.M)
TEMPERATURE LIMITS OPERATION	-45 °C to +65 °C
TEMPERATURE LIMITS STORAGE	-53 °C to +73 °C
MAXIMUM RANGE	10426 (m)





## **2.75 INCH HYDRA ROCKET**

### **MK66 ROCKET MOTOR**

#### **ROCKET LAUNCHERS & COMPATIBLE PLATFORMS**

M-Series LWL Light Weight Launchers  
M260 (7-tube) M261 (19-tube) for rotary wing platforms  
AH-64 Apache, AH-1 Cobra, MD500, S-70, UH-60

#### **PACKING / PACKAGING**

One rocket motor in a fiber container.  
Six fiber containers in wooden crate.  
Crate dimensions 1235 mm X 302 mm X 236 mm.  
Crate mass total 66.2 Kg  
Hazard Class 1.3C - UN No. # 0186



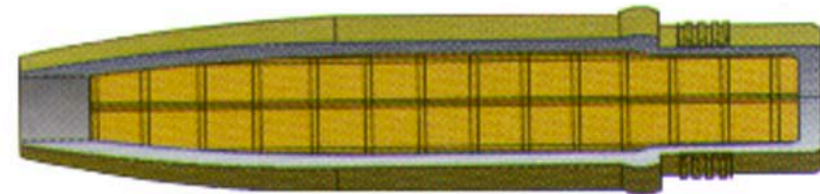


## 2.75 INCH HYDRA ROCKET

### M151 HIGH EXPLOSIVE WARHEAD

#### TECHNICAL CHARACTERISTICS PART 1

LENGTH (Without Fuze)  
LENGTH (With Fuze)  
MASS  
TYPE of High Explosive  
MASS High Explosive  
Fragments (Average Number)



328 mm  
429 mm to 474 mm  
4.2 Kg  
COMP B  
1.04 Kg  
700



## 2.75 INCH HYDRA ROCKET

### M151 HIGH EXPLOSIVE WARHEAD

#### TECHNICAL CHARACTERISTICS PART 2

TEMPERATURE LIMITS OPERATION  
TEMPERATURE LIMITS STORAGE  
BOOSTER  
FUZE IMPACT PD



-45 °C to +65 °C  
-53 °C to +73 °C  
RDX Class C  
M423 / M427 & others compatible



## **M151 HIGH EXPLOSIVE WARHEAD**

### **PACKING / PACKAGING / MARKINGS**

One warhead in fiber container.  
Eight fiber containers in wooden crate.  
Crate dimensions 400 mm X 190 mm X 460 mm.  
Crate mass total 28 Kg  
Hazard Class 1.1D UN No. # 0286



Opaque dark green color and inscriptions in opaque yellow.



## 2.75 INCH HYDRA ROCKET

### **M423 / M427 POINT DETONATING IMPACT FUZE**

#### **TECHNICAL SPECIFICATIONS PART 1**

Total Mass	311 g
Overall length	99 mm
Largest diameter	45 mm
Firing System	Impact
Mechanical Arming System	Inertial







## 2.75 INCH HYDRA ROCKET

### **M423 / M427 POINT DETONATING IMPACT FUZE**

#### **TECHNICAL SPECIFICATIONS PART 2**

Booster Length	25.8 mm
Acceleration for unlocking	20 G
Minimum time for Arming Integration	900 ms at 40 G
Maximum time for Arming Integration	1300 ms at 40 G





**M423 / M427  
POINT DETONATING IMPACT FUZE**

**PACKING / PACKAGING**

One fuze in fiber container.

Twenty four fiber containers in wooden crate.

Crate dimensions 570 mm X 410 mm X 220 mm.

Crate mass total 15 Kg

Hazard Class 1.1B

UN No. # 0106

