

# Powermite® MAX

## Detonator Sensitive Emulsion Explosive

Technical Information



### Product Description

POWERMITE® MAX is a product line of detonator sensitive emulsion explosive with a diameter range of 27- 38 mm and different packaging weight. It is developed for underground blasting applications in all rock conditions, including very hard rocks. POWERMITE® MAX can provide continuing detonation even within 6 cm space. Thus, detonation continues even if the gap between the cartridges occurred due to the vibration caused by the detonation of the close holes. The product has a balanced sensitivity. Therefore, its packaging is sensitive to the detonators, and resistant to the dynamic shock from detonation of side holes. POWERMITE® MAX has a negative oxygen balance. This limits the generation of hazardous NOx gases during the blast, and generally reduces the ventilation duration. POWERMITE® MAX has excellent waterproof properties and shows successful results both in dry and wet holes.

### Application Recommendations

POWERMITE® MAX is used in a blastholes with diameter range of 32-45mm in all underground blast applications in underground metal mining, tunneling, etc. as a booster or the main charge.

## Properties

|                              |               |
|------------------------------|---------------|
| Density (g/cm <sup>3</sup> ) | 1.10 – 1.21   |
| Energy (MJ/kg)               | 4.56          |
| Gas Volume (lt/kg)           | 825           |
| Detonation Temperature (°C)  | 2830          |
| V.O.D. (m/s)                 | 5000*         |
| Water Resistance             | Excellent     |
| Shelf Life                   | 6 Months      |
| Storage temperature limits   | -10°C / +40°C |

\* 27mm plastic cartridge

\*\* All values can show ± %3 variance.

### Hazardous Shipping Description

U.N. 0241

Explosive, Blasting, Type E

Class: 1.1D



CE 1019



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### Priming requirements

POWERMITE® MAX is formulated to be sensitive to a No.8 strength detonator or 5g/m detonating cord. The preferred method of initiation is via the NONELDET® system. When inserting the detonator into cartridge always use a wooden skewer, not the detonator, to break the plastic film. The detonator should be inserted into the POWERMITE® MAX cartridge at right angles to the rock surface.

### Handling, transportation

The product must be transported in accordance with local and national regulations or directives / guidelines from authorities. No smoking, fire, sparks or welding. No source of ignition. Keep product clean and free from contamination.

### Storage

Store in cool, dry, well-ventilated location. Store in compliance with local and national regulations or directives/guidelines from authorities. No smoking, fire, sparks or welding. Must not be stored with flammable substances and ignition sources.

### Safety Instructions

- If not stored, handled or used properly, explosives may cause harm to humans or the environment. All types of explosives shall be stored, handled and used in compliance with laws and regulations.

|                         | PACKAGING       |                 |                 |                 |                 |                 |
|-------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Cartridge Diameter (mm) | 27              | 29              | 32              | 32              | 34              | 38              |
| Cartridge Length (mm)   | 235-240         | 210-215         | 215-220         | 430-440         | 400-410         | 375-385         |
| Cartridge Weight (g)    | 160             | 160             | 200             | 400             | 400             | 500             |
| Cartridges in box       | 125             | 125             | 100             | 50              | 50              | 40              |
| Box Weight (kg)         | 20              | 20              | 20              | 20              | 20              | 20              |
| Box Dimensions (cm)     | 380x245<br>x260 | 420x260<br>x260 | 420x260<br>x260 | 445x160<br>x320 | 420x260<br>x240 | 400x200<br>x300 |

± %3 weight variance

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