

Powermite®

Detonator Sensitive Emulsion Explosive

Technical Information



Product Description

POWERMITE® is a detonator sensitive cartridge emulsion with a diameter range of 50- 90 mm and different packaging weight options. The product is used as a primer for all surface applications. With its strong detonation wave and high energy, it provides effective and reliable blasting results.

POWERMITE® has a balanced sensitivity. Therefore, its packaging is sensitive to the detonators, and resistant to the dynamic shock from detonation of side holes..

Application Recommendations

POWERMITE® is used as the booster for a hole diameter range of 89-162mm in all surface applications like open pit blasting operations, industrial raw material and stone pits, infrastructure construction projects, etc.

Properties

Density (g/cm ³)	1.15 – 1.33
Energy (MJ/kg)	3.6
Gas Volume (lt/kg)	930
Detonation Temperature (°C)	2423
V.O.D. (m/s)	3500-4500*
Water Resistance	Excellent
Shelf Life	6 Months
Storage temperature limits	-10 °C / +40 °C

* in 50mm plastic cartridge

* in 90mm plastic cartridge

** All values can show ± %3 variance.

Hazardous Shipping Description

U.N. 0241, Class: 1.1D

Explosive, Blasting, Type E



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Priming requirements

POWERMITE® 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® 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)	50	60	70	90
Cartridge Length (mm)	275-280	235-240	230-235	260-265
Cartridge Weight (g)	625	800	1000	2000
Cartridges in box	32	25	20	10
Box Weight (kg)	20	20	20	20
Box Dimensions (mm)	420x210x330	550x190x270	360x300x290	360x300x290

± %3 Tolerance

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