



JOHNEX explosives

MEGAGEL® Water Resistant Cartridged Water Gel Explosive

MEGAGEL® cartridged water gel explosives are a detonator sensitive, AN-based explosive specifically formulated for use in surface or underground rock blasting operations.



APPLICATION

MEGAGEL® is ideal for blasting rock and initiating bulk ANFO in small to medium diameter blast holes (i.e. up to 102mm diameter holes). MEGAGEL® is compatible with detonating cords containing at least 10g/m PETN and all commercially manufactured detonators of strength No. 8 or greater. MEGAGEL® is specifically designed for the higher energy output required in difficult blasting conditions.

FEATURES AND BENEFITS

- Post-blast fumes are reduced when using MEGAGEL®
- Superior cartridge film strength prevents cartridge splitting and snagging in hole.
- MEGAGEL® has exceptional water resistance, diminishing nitrate leaching into the ground and the subsequent environmental impact.
- MEGAGEL® is reliably initiated by No. 8 strength detonators.
- MEGAGEL® may be used at temperatures up to 55°C (subject to statutory regulations).

PHYSICAL PROPERTIES

Explosive Type	WATERGEL
Normal Density (g/cm³)	1.15g/cc
Velocity of Detonation (m/s)	4300
Relative Weight Strength*	121%
Relative Bulk Strength* to ANFO @ 0.8 g/cc	183%
Explosive Class: 1.1D UN Number: 0241	

*Relative Weight Strength and Relative Bulk Strength are calculated using an in-house Thermodynamic code. This traditional way of calculating energy is directly related to density and does not take into account the distribution of energy.

STANDARD PACKAGING GUIDELINES

PRODUCT	DIAMETER (mm)	LENGTH (mm)	NOMINAL CARTRIDGE MASS (g)	NOMINAL CARTRIDGE / 25kg BOX
MEGAGEL® 26mm	26	200	122	205
MEGAGEL® 26mm	26	400	244	102
MEGAGEL® 32mm*	32	200	185	135
MEGAGEL® 32mm*	32	400	370	68
MEGAGEL® 55mm*	55	400	1093	22
MEGAGEL® 65mm*	65	400	1526	16

*Special order only. Product density may influence unit count per case. Other sizes available on special request only. Made to order.

STORAGE AND HANDLING

Store in a clean well ventilated and dry magazine licensed for Class 1 Explosives.

SHELF LIFE

Detonator Sensitive: MEGAGEL® has a minimum shelf life of 18 months*

Booster Sensitive: MEGAGEL® has a minimum shelf life of 24 months*

Best Before date should be considered 12 Months

*When stored as per AS2187.1

SAFETY

MEGAGEL® contains explosive material which, while relatively insensitive to accidental initiation by shock, friction or mechanical impact, should be handled with due care appropriate to a detonator sensitive explosive. MEGAGEL® should be handled by personnel qualified under state law (i.e. shotfirers). MEGAGEL® should not be used in hot holes or in applications of known reactive ground.

For more information please consult the Material Safety Data Sheet.

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