

# Technical Data Sheet



## Detagel™

Packaged, Detonator Sensitive Watergel Explosive

### Description

**Detagel™** is a small diameter, high strength hexamine nitrate, slurry watergel. It is offered in a wide variety of small diameter sizes. This detonator sensitive product is recommended for use in underground hardrock mining operations that utilize pneumatic cartridge loaders. It also makes a good column load for use in ditching and trenching operations. In many applications, **Detagel™** can offer an effective and economical alternative to NG dynamite products. Even though it is detonator sensitive, it withstands standard drop weight and friction tests. There are several special density formulations (regular formula, high strength (HS), or low density (LD)) available, allowing weight to distance adjustments. These products are manufactured without cord.

### Benefits

Some of the primary advantages of this product include:

- Produces high shattering effect, high brisance, and gas volume
- Holds its shape in storage and is cuttable to suit a variety of explosive applications
- Contains no nitroglycerin, so no worries about headaches from fumes during detonation or storage
- Consistency allows for package perforation with no loss of product, making it easy to use with downhole initiation systems
- Maintains excellent shelf life

### Features

**Detagel™** slurry has the following characteristics:

A reliable primer for ANFO and slurry products

- Suitable for underground use
- Possesses the favorable handling characteristics of a watergel
- **Detagel™ HS** provides extra high strength as a detonator sensitive hexamine nitrate slurry
- **Detagel™ LD** is a high strength, low density detonator sensitive hexamine nitrate slurry

### Properties

Property	Detagel™ 50 x 300 mm (2 x 12 in)	Detagel™ HS 50 x 300 mm (2 x 12 in)	Detagel™ LD 50 x 300 mm (2 x 12 in)
Cartridge Density (g / cc)	1.20	1.20	1.05
Typical Velocity of Detonation*	4,938 m/s 16,200 ft/s	4,938 m/s 16,200 ft/s	4,267 m/s 14,000 ft/s
Water Resistance	Excellent	Excellent	Excellent
Fume Class	1	1	1
Relative Weight Strength (RWS)	154	162	122
Relative Bulk Strength (RBS)	103	108	93

\* Confined

### Notes:

- The "Relative Effective Energy" (REE) of an explosive is the energy calculated to be available to do effective blasting work. All energy values are calculated using the **IDE™** computer code owned by Orica for the exclusive use of its companies. Energy values are based on standard ANFO with a density of 0.84 g/cc and a cutoff pressure of 100 MPa. Other computer codes may give different values.

### Priming

At -7°C (+19°F) and greater, use standard detonator – confined.

### Packaging

All **Detagel™** products are packaged in high strength, tear resistant film cartridges that are packed into 25 kg (55 lb) fiberboard cartons. The product is currently offered in the following sizes:

Diameter x Length (mm)	D x L (inches)	Average # Cartridges per Carton		
		Detagel™	Detagel™ HS	Detagel™ LD
25 x 200	1 x 8	201	201	229
25 x 300	1 x 12	134	134	154
25 x 400	1 x 16	101	101	114
25 x 3,050*	1 x 120*	15	N/A	N/A
25 x 3,650*	1 x 144*	12	N/A	N/A
30 x 200	1 1/8 x 8	160	160	183
30 x 300	1 1/8 x 12	106	106	121
30 x 400	1 1/8 x 16	79	79	91
32 x 200	1 1/4 x 8	129	129	147
32 x 300	1 1/4 x 12	86	86	98
32 x 400	1 1/4 x 16	65	65	74
40 x 200	1 1/2 x 8	90	90	103
40 x 300	1 1/2 x 12	59	59	69
40 x 400	1 1/2 x 16	45	45	52
40 x 1200*	1 1/2 x 48*	14	N/A	N/A
45 x 400	1 3/4 x 16	34	34	38
50 x 200	2 x 8	51	51	57
50 x 300	2 x 12	33	33	38
50 x 400	2 x 16	25	25	29
55 x 400	2 1/4 x 16	20	20	N/A
65 x 200	2 1/2 x 8	32	32	N/A
65 x 400	2 1/2 x 16	16	16	N/A
70 x 400	2 3/4 x 16	13	13	N/A
75 x 200	3 x 8	22	22	N/A
75 x 400	3 x 16	11	11	N/A
85 x 400	3 1/4 x 16	10	10	N/A
90 x 400	3 1/2 x 16	9	9	N/A

Notes: \* These sizes are special order items and minimum order quantities apply.

N/A These sizes are not presently offered, but could be warranted by market conditions.

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## Detagel™

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### Shelf Life

Two (2) years from date of manufacture when stored properly in an approved, well ventilated explosives magazine.

### Storage

Detonator sensitive **Detagel™** is best stored at temperatures above -15°C (+5°F). This is especially important in cold weather "load and shoot" worksites where there is insufficient in-hole warm-up time.

Before it can be used with pneumatic cartridge-loading equipment, the internal temperature of **Detagel™** should be 0°C (32°F) or higher.

For recommended good practices in transporting, storing, handling, and using this product, refer to the "Always and Never" booklet packed inside each carton.

### Hazardous Materials Shipping Description

Explosive, Blasting, Type E  
Class and Division 1.1D  
UN 0241

**Detagel™** EX 2002040231

**Detagel™** HS EX 2002040229

**Detagel™** LD EX 2002040231

### Disclaimer

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**Warning:** Carbon monoxide and carbon dioxide may migrate through the ground after detonation of explosives. Consult an SEC representative for specific applications.

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