TECHNICAL DATA SHEET

Detagel™

Description

Detagel™ is a small diameter, high strength hexamine nitrate, slurry watergel.

Application

Detagel™ is recommended for use in hard rock underground and surface construction applications. It is also ideally suited for pneumatic cartridge loading. *Detagel*™ is also available in a low-density (*Detagel*™ LD) formulation.

Key Benefits

- In many applications, *Detagel*™ can offer an effective and economical alternative to NG dynamite products.
- *Detagel*™ is detonator sensitive and withstands standard drop weight and friction tests.
- *Detagel*™ produces a high shattering effect, brisance, and gas volume.
- *Detagel*™ holds its shape in storage and is cuttable to suit a variety of explosive applications.
- OH&S issues around the handling and storage of nitroglycerin are eliminated.
- The consistency of *Detagel*™ allows for package perforation with no loss of product.
- *Detagel*™ is formulated for Fume Class 1.

Technical Properties

		Detagel™
Cartridge Density (g/cc)		1.20
Typical Velocity of Detonation[1]		4,938 m/s 16,200 ft/s
Water Resistance		Excellent
Fume Class		1
Relative Effective Energy (REE) [2]	**Relative Weight Strength (RWS)**	103
	Relative Bulk Strength (RBS)	154

Recommendations for Use

Blasthole Depth

Detagel™ is suitable for use in holes of any practical depth providing contained water does not exceed 20 m (66 ft.) depth.

Priming and Initiation

At temperatures of -7°C (+19°F) and greater, use a standard detonator when confined.

Sleep-Time Within Blastholes

The sleep time in a blasthole is influenced by the extent of damage to the packaging and by the nature of any water present.

Detagel™

Packaging

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

Size		Nominal Count per Case
(mm)	(in)	Detagel™
25 x 200	1 x 8	201
25 x 3.05	1 x 10 ft	15
25 x 3.66	1 x 12 ft	12
32 x 200	1¼ x 8	129
32 x 400	1¼ x 16	65
40 x 200	1½ x 8	90
40 x 300	1½ x 12	59
40 x 400	1½ x 16	45
40 x 1200	1½ x 48	14
45 x 400	1¾ x 16	34
50 x 200	2 x 8	51
50 x 400	2 x 16	25
65 x 200	2½ x 8	32
65 x 400	2½ x 16	16
70 x 400	2¾ x 16	13
75 x 400	3 x 16	11
90 x 400	3½ x 16	9

Storage and Handling

Product Classification

Authorized Names: *Detagel*™
Proper Shipping Name: Explosive, blasting, type E
Classification: 1.1D
UN No: 0241
Packing Group: II

All regulations pertaining to the handling and use of such explosives apply.

Storage

Store *Detagel*™ in a suitably licensed magazine for Class 1.1D explosives. The cases should be stacked in the manner designated on the case. *Detagel*™ has a **shelf life** of two years from date of manufacture when stored properly in an approved, well-ventilated high explosives magazine.

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.

Transport

Detagel™ should be transported between -40°C (-40°F) and +40°C (104°F).

Disposal

Disposal of explosive materials can be hazardous. Methods of safe disposal of explosives may vary depending on the user's situation. Please contact an Orica Technical Services Representative for information on safe practices.

Safety

The post detonation fume characteristics of *Detagel*™ make the product suitable for both underground and surface blasting applications. Users must ensure that adequate ventilation is provided prior to re-entry into the blast area.
Detagel™ can be initiated by extremes of shock, friction or mechanical impact. As with all explosives, *Detagel*™ must be handled and stored with care and must be kept clear of flame and excessive heat.

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Disclaimer

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Emergency Telephone Numbers

For chemical emergencies (24 hour) involving transportation, spill, leak, release, fire or accidents:

Canada: Hallowell Manufacturing LLC. Canada emergency response **1-877-561-3636**
USA: Chemtrec **1-800- 424-9300**

For lost, stolen or misplaced explosives:
USA: BATFE **1-800-800-3855**. Form ATF F5400.0 must be completed and local authorities (state / municipal police, etc) must be advised.

Notes:

(1.) Unconfined at 5°C (41°F). VOD will depend on application including explosive density, blasthole diameter and degree of confinement. The VOD range is based on minimum unconfined and calculated ideal.

(2.) 2. 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 *IDeX*™ 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 cut-off pressure of 100Mpa. Other computer codes may give different values.