

Powerditch™ 1000

Description

Powerditch™ 1000 is a high-energy premium specialty dynamite product that is pre-compression resistant.

Application

Powerditch™ 1000 has been formulated to reduce hole-to-hole propagation and can be utilized in various blasting applications, including; trenching, ditching, site preparation, and underwater blasting.

Key Benefits

- Powerditch™ 1000 provides superior breakage under severe conditions.
- Powerditch™ 1000 provides reduced hole-to-hole propagation.
- Impact and friction sensitivity is reduced with Powerditch™ 1000.
- Powerditch™ 1000 provides high detonation pressure.
- Excellent performance under high static pressures.
- Resistant to dynamic pre-compression.
- Powerditch™ 1000 has excellent water resistance, and is suitable for use in applications with moderate to severe water conditions.

Technical Properties

Powerditch™ 1000 50 mm (2 in.)		
Cartridge Density (g/cc)		1.36
Velocity of Detonation ¹		5,150 m/s 16,900 ft/s
Water Resistance		Excellent
Fume Class		1
Relative Effective	Relative Weight Strength (RWS)	106
Energy (REE) ²	Relative Bulk Strength (RBS)	171

Packaging

Depending on size, Powerditch™ 1000 is packaged in easy to load rigid spiral wound shells, or convolute paper shells. Standard cartridge sizes are as follows:

Sizes (mm)	Sizes (in.)	Cartridge/case	Paper Type	Kg/case	lbs/case
32 x 200	1¼ x 8	88	Convolute	19.16	42.25
32 x 400	1¼ x 16	44	Convolute	19.56	43.13
40 x 200	1½ x 8	60	Convolute	19.05	42.01
40 x 400	1½ x 16	30	Convolute	18.51	40.81
45 x 400	1¾ x 16	20	Convolute	17.69	39.01
50 x 200	2 x 8	34	Convolute	19.28	42.51
50 x 300	2 x 12	23	Spiral	19.56	43.13
			Convolute/ Spiral		
50 x 400	2 x 16	17	Spiral	19.28	42.51
65 x 400	2½ x 16	10	Spiral	17.69	39.01
75 x 200	3 x 8	16	Spiral	20.16	44.45

Recommendations for Use

Priming and Initiation

Powerditch™ 1000 is recommended to be primed with a high strength detonator or 20 grain /ft detonating cord.

Storage And Handling

Product Classification

Authorized Name: Powerditch™ 1000
 Proper Shipping Name: Explosive, blasting, type A
 Classification: 1.1D
 UN No: 0081
 Packing Group: II
 EX Number: 1993070005A

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

Storage

For maximum shelf life, dynamite must be stored in cool, dry, and well-ventilated magazines. Dynamite that is stored under

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warm, wet, and/or humid conditions can deteriorate quickly, minimizing shelf life. Dynamite inventories should always be rotated, by using the oldest materials first.

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

Transport

Powerditch™ 1000 should be transported between -40°F (-40°C) and 104°F (+40°C).

Disposal

Disposal of explosives materials can be hazardous. Methods for safe disposal of explosives may vary depending on the user's situation. Please contact a local Orica representative for information on safe practices.

Safety

The post detonation fume characteristics of *Powerditch™ 1000* make the product suitable for both underground and surface blasting applications. Users should ensure that adequate ventilation is provided prior to re-entry into the blast area.

Powerditch™ 1000 can be initiated by extremes of shock, friction or mechanical impact. As with all explosives, *Powerditch™ 1000* should be handled and stored with care and must be kept clear of flame and excessive heat.

Trademarks

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Emergency Contact Telephone Numbers

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

Canada: Orica 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

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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.