

Centric™ 2000



Description

Centric™ 2000 explosive dynamite is a nitroglycol based, high strength, detonator sensitive explosive. The explosive is red in colour and wrapped in waxed paper or packaged in PE film.

Application

Centric™ 2000 can be used in priming applications and as a high-density column explosive. Centric™ 2000 delivers exceptional results in hard rock applications.

Centric™ 2000 is designed for use in surface mining, quarrying and construction, tunnelling and underground blasting.

Key Benefits

- Centric™ 2000 is a high energy explosive dynamite with excellent energy transmission qualities for outstanding blast results in the toughest ground.
- Centric™ 2000 is suitable for use in confined blasting and underwater applications.
- Centric™ 2000 is highly water resistant, which minimises leaching and reduces environmental impact.
- Centric™ 2000 contains no aromatic nitro compounds (DNT and TNT), which are considered to be carcinogenic.

Recommendations for Use

Blasthole Depth

Centric™ 2000 is suitable for use in holes of any practical depth providing contained water does not exceed 30 m depth.

Priming and Initiation

An Exel™ or i-kon™ detonator can reliably initiate Centric™ 2000. If ignited with a Cordtex™ detonating cord, the cord must have a minimum filling weight of 6 g PETN/m and be led over the entire length of the charging pillar.

Ground Temperature

These products are available for use in ground temperatures - 20 °C to a maximum of 50 °C. If your application requires you to operate outside this temperature range please contact your DEXPLOC representative.

Technical Properties

Product	Centric™ 2000
Density (g/cm ³) ⁽¹⁾ approx.	1.4
Minimum Cartridge Diameter (mm)	22
Hole Type	Wet and Dry
Typical VOD (m/s) ⁽²⁾ min.	>2000 (Ø22 mm – 32mm) >4500 (>Ø32 mm)
Explosion Heat (kJ/kg) approx.	4135
Relative Effective Energy (REE) ⁽³⁾	
Relative Weight Strength (%)	80
CO ₂ Output (kg/t) ⁽⁴⁾	170
Gas volume (l/kg)	892

Packaging

Centric™ 2000 is paper wrapped or packaged in red film, differentiating it from other packaged explosives.

Standard cartridge sizes are as follows:

Dimension		Net weight		Gross weight Box (kg)	Qty cartridges bag (pcs)	Qty cartridges box (pcs)	Qty box pal (pcs)
Diameter (mm)	Length (mm)	Cartridge (g)	Box (kg)				
Paper wrapped							
25	200	125	25,00	26,00	20	200	30
25	380	250	25,00	26,00	50	100	32
28	220	200	24,00	25,00	20	120	32
30	380	365	24,82	25,82	34	68	32
36	340	450	24,30	25,30	18	54	30
38	395	625	25,00	26,00	40	40	30

Dimension		Net weight		Gross weight Box (kg)	Qty cartridges box (pcs)	Qty box pal (pcs)	
Diameter (mm)	Length (mm)	Cartridge (g)	Box (kg)				
PE film							
43	550	1100	22,00	23,00	20	30	
50		1600	24,00	25,00	15		
55		1900	22,80	23,80	12		
60		2080	24,96	25,96	12		
65		2500	25,00	26,00	10		
70		2770	24,93	25,93	9		
75							
80		4000	24,00	25,00	6		

Storage and Handling

Product Classification

Authorised Name: Centric™ 2000
Proper Shipping Name: Explosive, Blasting, Type A
UN No.: 0081
Classification: 1.1D
EC Type Certificate: 1453.EXP.10.0176

All regulations on the handling and use of such explosives apply.

Storage

Store Centric™ 2000 in a suitably licensed magazine for Class 1.1D explosives. The cases should be stacked in the manner designated on the cases.

Centric™ 2000 is best stored at temperatures between 0 °C and +30 °C.

Centric™ 2000 has a storage life of up to 12 month in an approved magazine.

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 DEXPLOC representative for information on safe practices.

Safety

Centric™ 2000 can be used underground as well as in surface blasting applications. Users should ensure that adequate ventilation is provided prior to re-entry into the blast area.

Centric™ 2000 can be initiated by extremes of shock, friction or mechanical impact. As with all explosives, Centric™ 2000 should be handled and stored with care and must be kept clear of flame and excessive heat.

- Not for mines with a danger of fire damp or coal dust explosion.

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Notice:

1. Nominal Density Only.
2. VOD will depend on application including explosive density, blasthole diameter and degree of confinement. The VOD range is based on unconfined and calculated ideal. (Steel tube Ø34 mm measurement 6000 ±200 m/s).
3. REE is the Effective Energy relative to HMX.
4. Unconfined, free hanging, fresh product, valid for products with the smallest diameter.