dexploc TECHNICAL INFORMATION

Centric™ Magnasplit™

Description

Centric™ Magnasplit™ explosive dynamite is a nitroglycol based, high strength, detonator sensitive explosive. The explosive is red in colour packed in plastic tube.

Application

Centric™ Magnasplit™ can be used in priming applications and as a high-density explosive.

Centric™ Magnasplit™ is special designed for tunneling and underground blasting and for cautious blasting. It can be used as column explosives as well.

Key Benefits

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

Recommendations for Use

Blasthole Depth

Centric™ Magnasplit™ 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™ Magnasplit™. 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™ Magnasplit™
Density (g/cm³) (1) approx.	1.4
Colour	red
Minimum Cartridge Diameter (mm)	22
Hole Type	Wet and Dry
Typical VOD (m/s) (2)	>2000 (Ø22 mm – 32mm) >4500 (>Ø32 mm)
Explosion Heat (kJ/kg) approx.	4135
Relative Effective Energy (REE) (3)	
Relative Weight Strength (%)	80
Gas volume (l/kg) approx.	892
Air gap (cm) (4) approx.	>6
Oxygen balance (%)	3,9
Impact sensitive (J) (BAM, Fall hammer)	>2
Friction sensitive (N) (BAM, Friction instrument)	>80
Min. strength detonator or detonating cord for safe initiation	REF.DET 3 Base charge 0.6 g PETN (or 6 g/m detonating cord)

Packaging

Centric™ Magnasplit™ is packaged in plastic tubes of standard lengths. Standard cartridge sizes are as follows:

Dimension (mm)		Net weight (kg)			Gross weight (kg)			Qty tubes box	Qty box pal
Diameter	Length	Tube	Box	Pal	Tube	Box	Pal		
25	1100	0.68	23.0	644.0	0.74	26.6	770	34	28
29		0.93	23.3	652.4	1.00	26.6	770	25	28
32		1.16	23.2	649.6	1.25	26.6	770	20	28
39		1.75	22.8	638.4	1.85	25.6	742	13	28

Storage and Handling

Product Classification

Authorised Name:	Centric™ Magnasplit™
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™ Magnasplit™ in a suitably licensed magazine for Class 1.1D explosives. The cases should be stacked in the manner designated on the cases.

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

Centric™ Magnasplit™ has a storage life of up to 18 months 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™ Magnasplit™ 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™ Magnasplit™ can be initiated by extremes of shock, friction or mechanical impact. As with all explosives, Centric™ Magnasplit™ 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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Notes:

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 minimum unconfined and calculated ideal.
3. REE is the Effective Energy relative to ANFO at a density of 0.8 g/cm^3. ANFO has an effective energy of 2.30 MJ/kg. Energies quoted are based on ideal detonation calculations with a 100 MPa cut off pressure. Non-ideal detonation energies are also available on request. These take account of blasthole diameter, rock type and explosive reaction behaviour.
4. Carbon Dioxide is the main greenhouse gas produced. The output is calculated assuming ideal detonation.

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