

Centric™ Magnasplit™ 1, 2, 3, 4



Description

In many kinds of blasting work, it is important for the blast to break in such a way that the remaining rock surface incurs the least possible damage. To help achieve this, DEXPLOC supplies a series of tube charges of different dimensions and strengths, based on nitroglycol-bearing powder formula.

Centric™ Magnasplit™ indicates the strength of the formula, with 1 indicating the highest strength and 4 the weakest strength. Since tube charges have limited resistance to water, their use is limited to relatively dry drill holes only.

Centric™ Magnasplit™ charges were developed for contour blasting. However, they are also suitable for blasting in densely built-up areas, where the risk of ground vibration calls for reduced and controlled charges in the drill holes. Another application, especially for the weaker tube charges, is dimensional-stone blasting.

Centric™ Magnasplit™ 1 is an all-round tube charge for contour blasting, smooth blasting and pre-splitting. Biggest recommended drill-hole diameter is 51 mm (2").

Centric™ Magnasplit™ 2 is suitable for contour blasting and dimensional-stone blasting, where a somewhat reduced charge is desired compared with *Centric™ Magnasplit™ 1*.

Centric™ Magnasplit™ 3 is suitable for dimensional-stone blasting. Often used in combination with *Centric™ Magnasplit™ 4*.

Centric™ Magnasplit™ 4 was developed for blasting labradorite, and is the weakest detonating explosive in the DEXPLOC product range.

Centric™ Magnasplit™ 4 is used for dimensional-stone blasting, often in combination with *Centric™ Magnasplit™ 3*.

Application

Centric™ Magnasplit™ can be used for contour blasting, smooth blasting, pre-splitting and dimensional-stone blasting.

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

Technical Properties

Product	Centric™ Magnasplit™			
	1	2	3	4
Density (g/cm ³) ⁽¹⁾ approx.	1.0	1.05	1.16	1.21
Colour	orange	yellow	blue	Larvikit, white
	white			
Minimum Cartridge Diameter (mm)	17	22	17	
	22			
Hole Type	dry			
Typical VOD (m/s) ⁽²⁾	2300	2200	1700	1300
Energy (Explosion heat) (MJ/kg) approx.	3.4	2.8	1.6	1.2
Gas Volume (l/kg) approx.	930	700	370	210
Air gap (cm) ⁽³⁾ approx.	>8	>5	1	
Oxygen balance (%)	4.8		0.8	0.4
Impact sensitive (J) (BAM, Fall hammer)	20			50
Friction sensitive (N) (BAM, Friction instrument)	>360			
Min. strength detonator or detonating cord for safe initiation	REF.DET 3, Base charge 0.6 g PETN (or 5 g/m detonating cord)			
Relative Effective Energy (REE) ⁽⁴⁾				
Relative Weight Strength (%)	88	72	40	29
Relative Bulk Strength (%)	110	94	58	44
CO ₂ Output (kg/t) ⁽⁵⁾	211	202	123	150

Recommendations for Use

Blasthole Depth

At greater depths, recommended initiation with 5 or 10 g cord taped along the tube.

Charging

Centric™ Magnasplit™ tube charges are delivered with locking sleeves (in the case of Ø17 mm tube charges) or jointing sleeves (in the case of Ø22, mm tube charges).

Priming and Initiation

To ensure safe and reliable initiation, a primer or detonating cord is recommended for *Centric™ Magnasplit™*. Suitable detonating cord is either 5 g/m or 10 g/m. Note that it is important to ensure that the detonating cord has good contact with each individual tube in the charge.

Ground Temperature

These products are available for use in ground temperatures - 20 °C to a maximum of 50 °C. If your application requires you

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to operate outside this temperature range, please contact your DEXPLOC representative.

Packaging

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

Centric™ Magnasplit™ 1										
Colour	Dimension (mm)		Net weight (kg)			Gross weight (kg)			Qty tubes box	Qty box pal
	Diameter	Length	Tube	Box	Pal	Tube	Box	Pal		
Orange	17	500	0.110	16.5	594	0.131	20.55	754.8	150	36
White	22	1000	0.370	18.5	388.5	0.425	22.45	480.15	50	21

Centric™ Magnasplit™ 2										
Colour	Dimension (mm)		Net weight (kg)			Gross weight (kg)			Qty tubes box	Qty box pal
	Diameter	Length	Tube	Box	Pal	Tube	Box	Pal		
Yellow	22	1000	0.396	19.8	415.8	0.451	23.75	507.45	50	21

Centric™ Magnasplit™ 3										
Colour	Dimension (mm)		Net weight (kg)			Gross weight (kg)			Qty tubes box	Qty box pal
	Diameter	Length	Tube	Box	Pal	Tube	Box	Pal		
Blue	17	500	0.120	18	648	0.141	22.05	808.8	150	36

Centric™ Magnasplit™ 4										
Colour	Dimension (mm)		Net weight (kg)			Gross weight (kg)			Qty tubes box	Qty box pal
	Diameter	Length	Tube	Box	Pal	Tube	Box	Pal		
Larvikit, white	17	500	0.125	18.75	675	0.146	22.8	835.8	150	36

Storage and Handling

Product Classification

Authorised Name	EC Type Certificate
<i>Centric™ Magnasplit™ 1</i>	BAM 0589.EXP.0666/17
<i>Centric™ Magnasplit™ 2</i>	BAM 0589.EXP.0666/17
<i>Centric™ Magnasplit™ 3</i>	BAM 0589.EXP.0666/17
<i>Centric™ Magnasplit™ 4</i>	BAM 0589.EXP.0666/17

Shipping Name: Explosive, Blasting, Type A
 UN number: 0081
 Classification: 1.1D

All regulations pertaining to 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.

Centric™ Magnasplit™ has a storage life of up to 24 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.

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Notes:

- Nominal Density Only.
- 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.
- REE is the Effective Energy relative to ANFO at a density of 0.8 g/cm³. 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.
- Carbon Dioxide is the main greenhouse gas produced. The output is calculated assuming ideal detonation.

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