

Powermite® RiGHT pac

Inhibited Cartridged Product

Technical
Information



Description

Powermite® RiGHT pac is a high strength, detonator sensitive inhibited emulsion explosive, packaged in plastic film chubs. Powermite RiGHT pac has a mouldable consistency, suitable for conforming to irregular surfaces. Powermite RiGHT pac is robust and designed to be manipulated in the packaging without loss of product sensitivity.

Application

Powermite RiGHT pac is formulated as an inhibited high energy explosive for use in secondary blasting where the rocks are at an elevated temperature and/or exhibit reactive ground properties. The mouldable consistency of Powermite RiGHT pac allows it to be shaped to fit irregular surfaces, providing maximum coupling to the rock. Powermite RiGHT pac provides excellent water resistance, minimising loss to the environment in wet conditions.

Dangerous Goods Classification

Product Name: Powermite Pro
Correct Shipping Name: Explosive, Blasting, Type E
UN Number: 0241
DG Class: 1.1D



Properties

Nominal Density (g/cm ³) ¹	1.10 – 1.4
Energy (MJ/kg) ²	3.60
Typical VOD (m/s) ³	4500 - 5400
Relative Weight Strength % ⁴	96
Relative Bulk Strength % ⁵	138
Water Resistance	Excellent

NOTES:

1. Values are indicative average densities only, determined under laboratory conditions by Dyno Nobel technical personnel at Dyno Nobel's Mt Thorley Technical Centre. Observed densities may differ or vary under field conditions. Nominal in hole density only.
2. All Dyno Nobel energy values are calculated using a proprietary Dyno Nobel thermodynamic code – Prodet. Other programs may give different values.
3. These results represent a range of VODs collected from numerous Dyno Nobel blast sites throughout the Asia Pacific region over a period of time. The velocity of detonation actually recorded in use is dependent upon many factors, including: the initiation system used, the product density, blasthole diameter and ground confinement. The values stated are typical of those recorded for the product in various hole diameters, densities and ground types, and may not be achievable under all circumstances.
4. Relative Weight Strength (RWS) and Relative Bulk Strength (RBS) are determined using a density of 0.82g/cm³ and an energy of 3.7MJ/kg for ANFO.
5. RBS depends on the final density of the product at the time of loading.

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Recommendations

Priming requirements - Powermite RiGHT pac is formulated to be sensitive to a No. 8 strength detonator or 5 g/m detonating cord. The preferred method of initiation is via the NONEL® system. When inserting the detonator into cartridge always use a wooden skewer, not the detonator, to break the plastic film. The detonator should be inserted into the moulded Powermite RiGHT pac charge at right angles to the rock surface. Detonating cord should not be placed between the rock to be broken and the Powermite RiGHT charge. At temperatures of 70°C and above, only detonating cord with the correct temperature rating should be used.

Temperature range – Powermite RiGHT pac is suitable for use with rock temperatures ranging from 0° to 100°C. For applications with rock temperatures outside this range, contact your Dyno Nobel representative.

Reactive ground – Powermite RiGHT pac is suitable for use with rock that exhibits reactivity with ammonium nitrate explosives. As with all secondary blasting, the explosive should be fired as soon as practicable after charging has been completed.

Shelf life - Powermite RiGHT pac products have a recommended shelf life of one (1) year when transported and stored under ideal conditions.

Packaging

Powermite RiGHT pac	Cart weight (kg)	Chubs per case
80mm x 400mm	25kg	25

Safe handling, transportation and storage

First Aid – You can find detailed first aid information on the relevant Dyno Nobel Material Safety Data Sheet. Refer to www.dynonobel.com for more information if required.

Safety - All explosives are classified as dangerous goods and can cause personal injury and damage to property if used incorrectly.

Transportation and Storage - All explosives must be handled, transported and stored in accordance with all relevant regulations. Stock should be rotated such that older product is used first.

Remember, the explosive products discussed in this document should only be handled by persons with the appropriate technical skills, training and licences.

While Dyno Nobel has made every effort to ensure the information in this document is correct, every user is responsible for understanding the safe and correct use of the products. If you need specific technical advice or have any questions, you should contact your Dyno Nobel representative.

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June 2012
VERSION 3

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