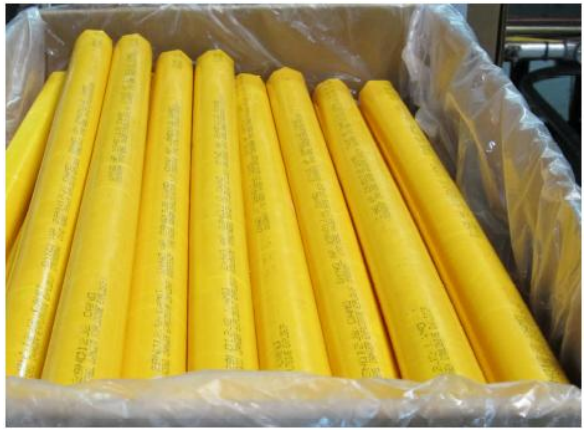
# Powermite® RiGHT

## Inhibited Cartridge Product

**Technical Information**



### Description

Powermite RiGHT is a high strength, detonator sensitive inhibited emulsion explosive, packaged in plastic film chubs.

### Application

Powermite RiGHT is formulated as an inhibited high energy explosive for use in blasting where the rocks are at an elevated temperature and/or exhibit reactive ground properties. Powermite RiGHT provides excellent water resistance, with minimal loss to the environment in wet conditions.

## Properties

| | |
|---|---|
| Nominal Density (g/cm$^3$) [1] | 1.10 - 1.14 gm/cc |
| Energy (MJ/kg) [2] | 3.6 MJ/kg |
| Typical VOD (m/s) [3] | 4500 - 5400 m/s |
| Relative Weight Strength % [4] | 90 |
| Relative Bulk Strength % [5] | 126 |
| 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, blast-hole 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/cm$^3$ and an energy of 3.7MJ/kg for ANFO.
5. RBS depends on the final density of the product at the time of loading.

**Hazardous Shipping Description**

Explosive, Blasting, Type E 1.1D UN 0241

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### Recommendations

**Priming requirements** - Powermite RiGHT is formulated to be sensitive to a No. 8 strength detonator or a 5g/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. At temperatures of 70ºC and above, only detonating cord with the correct temperature rating should be used.

**Temperature range** – Powermite RiGHT 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 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.

**Sleep time** - The sleep time of Powermite RiGHT will be limited to the recommended sleep time of the explosive it is priming or that of the initiation system.

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

### Safe handling, transportation and storage

**First Aid** – You can find detailed first aid information on the relevant Dyno Nobel 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.

### Packaging

| Diameter and Length | | Case Quantity | Case Weight | | Net Explosive Weight | |
|---|---|---|---|---|---|---|
| mm | in | | kg | lb | kg | lb |
| 32x200 | 1¼x8 | 105 | 18.6 | 41 | 0.17 | 0.37 |
| 32x300 | 1¼x12 | 70 | 18.2 | 44 | 0.26 | 0.57 |
| 32x610 | 1¼x24 | 38 | 19.8 | 44 | 0.52 | 1.15 |



**Dyno Nobel Asia Pacific Pty Limited** (ACN 003 269 010) is a subsidiary of
Incitec Pivot Limited (ACN 004 080 264) Level 8, 28 Freshwater Place, Southbank Vic 3006
Phone 1800 251 872 Fax 07 3026 3999 www.dynonobel.com

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