

Hydromite 1

PRODUCT INFORMATION BROCHURE

Hydromite 1 is a blasting agent based on an emulsion blended with ammonium nitrate; providing an excellent combination of detonation velocity and gas volume. Widely used in surface mining, quarrying and construction work. Excellent results achieved when used as a column load or as a base charge. Hydromite 1 can be initiated by a suitable sized cartridge of Emulex 1 or a cast booster.

ADVANTAGES

- High energy allows an extended drilling pattern for more economical blasting cost.
- Develops excellent gas volume for heave displacement.
- Very low amount of toxic fumes.
- Good borehole coupling characteristics when the diameter of product applied is matched to the dimensions of the blast hole.
- Excellent water resistance.

PROPERTIES

| Properties | Value |
|--|-------|
| Nominal Density [g/cm ³] | 1.25 |
| Oxygen balance [%] ⁽¹⁾ | +0.1 |
| Gas Volume [L/kg] ⁽¹⁾ | 995 |
| Heat of explosion [kJ/kg] ⁽¹⁾ | 3,000 |
| Relative weight strength [ANFO=100] ⁽¹⁾ | 78 |
| Relative bulk strength [ANFO=0.85 g/cm ³] ⁽¹⁾ | 119 |
| Velocity of detonation [m/s] (without confinement, booster, cartridge diameter 65 mm) ⁽²⁾ | 5,500 |

Notes:

⁽¹⁾ Theoretical values based on Austin modeling which assumes ideal detonation. Values calculated with other codes may differ.

⁽²⁾ The velocity of detonation will depend on application, diameter and confinement.



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07/2013

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STANDARD PACKAGING

| Cartridge Size mm | Cartridge Weight kg | Box Weight kg |
|----------------------|------------------------|------------------|
| 65 x 700 | 3.125 | 25.0 |
| 75 x 700 | 3.600 | 25.2 |

Notes: Size and weight are nominal values and may show production related variations. Other sizes are available on request.

STORAGE

- Lower temperature limit 0 °C (max. 3 months of storage down to -10 °C)
- Upper temperature limit +30 °C

USE

- Lower temperature limit 0 °C
- Upper temperature limit +50 °C
- Minimum booster APB 450 or emulsion explosive (e.g. Emulex 1)
- Maximum static overpressure 0.3 MPa (3 bar) for 24 hours
- Not for underground use
- Not for use in hazardous environments where flammable gases or dust may exist
- Austin accepts no responsibility for any loss or liability arising from use of the product in ground containing pyritic or other reactive material

SHELF LIFE

1 year from the date of manufacture

DISPOSAL

In accordance with local and national legal requirements. In doubt contact your supplier or the manufacturer.

TRANSPORTATION DATA

Shipping Name: EXPLOSIVE, TYPE E

UN Class and Division: 1.1D

UN Number: 0241

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