



# PRODUCT INFORMATION

## BROCHURE

1.1D

# HYDROMITE 100

**Hydromite 100** is a booster sensitive emulsion explosive which is produced on site by sensitizing an emulsion matrix by chemical gassing. Hydromite 100 is pumped directly into the borehole by an approved pump truck or pump unit.

## PRODUCT OVERVIEW

### PROPERTIES

Nominal Density [g/cm <sup>3</sup> ]	1.20
Oxygen balance [%] <sup>(1)</sup>	-0.3
Gas Volume [L/kg] <sup>(1)</sup>	1,009
Heat of explosion [kJ/kg] <sup>(1)</sup>	2,996
Relative weight strength [ANFO=100] <sup>(1)</sup>	81
Relative bulk strength [ANFO=0.82 g/cm <sup>3</sup> ] <sup>(1)</sup>	109
Velocity of detonation [m/s] (confined) <sup>(2)</sup>	4,000

Notes:

<sup>(1)</sup> Energy values are calculated using Explo 5, a thermo-dynamic computer code employed by Austin Powder Company. Other computer codes may give different values.

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

### BENEFITS

- Excellent water resistance
- Very low amount of toxic fumes
- Very low sensitivity against mechanical and thermal stress
- Very good filling of the boreholes
- Suitable for either underground or open pit use

## USE

- Lower temperature limit +5 °C
- Upper temperature limit +50 °C
- Minimum booster APB 20 or cartridge emulsion explosive (e.g. Emulex 1).
- Minimum borehole diameter 35 mm
- Not for use in hazardous environments where flammable gases or dust may exist
- Maximum static overpressure 3 bar (0.3 MPa)
- 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, STORAGE & DISPOSAL

- Shelf life is maximum 48 hours from production in the borehole.
- Disposal: According to local regulations. If you have any questions, ask the supplier.

## TRANSPORT – UN CLASSIFICATION

Shipping Name: EXPLOSIVES FOR BLASTING TYPE E  
Class & Division: 1.1D  
ID Number: UN 0241

Contact your local Austin Powder representative for further information.

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## AUSTIN POWDER

**Our Mission is to improve the world we live in through the safe and responsible use of explosives.**

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