



PRODUCT INFORMATION

BROCHURE

1.1D

HYDROMITE 70



Hydromite 70 is a booster sensitive bulk emulsion made from a mixture of 70% of Hydrox S with 30% low density ammonium nitrate porous prill and fuel oil. This emulsion is sensitized by chemical gassing. Hydromite 70 is widely used in surface mining, quarrying and construction work. As Hydromite 70 is not cap sensitive, it can be initiated by a suitable sized cartridge of Emulex 1 or APB.

PRODUCT OVERVIEW

PROPERTIES

Nominal Density [g/cm ³]	1.20
Oxygen balance [%] ⁽¹⁾	+0.1
Gas Volume [L/kg] ⁽¹⁾	1,023
Heat of explosion [kJ/kg] ⁽¹⁾	3,256
Relative weight strength [ANFO=100] ⁽¹⁾	88
Relative bulk strength [ANFO=0.82 g/cm ³] ⁽¹⁾	119
Velocity of detonation [m/s] (confined) ⁽²⁾	4,500

Notes:

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

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

BENEFITS

- Variation in final densities possible.
- Excellent water resistance.
- Develops high gas volume for enhanced muck pile heave.
- Very good filling of the boreholes.
- Very low sensitivity against mechanical and thermal stress.

USE

- Lower temperature limit +5 °C.
- Upper temperature limit +50 °C.
- Minimum booster APB 225 or emulsion explosive (e.g. Emulex 1).
- Minimum borehole diameter 75 mm.
- Not for use in hazardous environments where flammable gases or dust may exist.
- Not for underground use.
- 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.

Austin Powder Argentina S.A. | Luis Maggi 770, Rafaela, Santa Fe, 2300 Argentina
austinpowder.com | apa.comercial@austinpowder.com | Phone +54 3492 424 775