

Hydromite^e 70

PRODUCT INFORMATION BROCHURE

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.

ADVANTAGES

- 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

PROPERTIES

Properties	Value
Density [g/cm ³]	1.15 – 1.25
Oxygen balance [%] ⁽¹⁾	-1.0
Gas Volume [L/kg] ⁽¹⁾	965
Heat of explosion [kJ/kg] ⁽¹⁾	3,243
Relative weight strength [ANFO=100] ⁽¹⁾	83
Relative bulk strength [ANFO=0.85 g/cm ³] ⁽¹⁾	122
Velocity of detonation [m/s] (steel tube) ⁽²⁾	4,500

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.



AUSTIN POWDER

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USE

- Lower temperature limit +5 °C
- Upper temperature limit +50 °C
- Minimum booster APB 450 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

Maximum 48 hours from production in the borehole

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