



# PRODUCT INFORMATION

## BROCHURE

1.1D

# Hydromite 70



**Hydromite 70** is a booster sensitive bulk emulsion made from a mixture of 70% of Hydrox S/U 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

### 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.

### APPLICATION RECOMMENDATIONS

- Lower temperature limit +5 °C.
- Upper temperature limit +50 °C.
- Minimum booster APB 450 or emulsion explosive (e.g. Emulex 1 or APB).
- 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.

## PROPERTIES

Properties	Value
Nominal Density [g/cm <sup>3</sup> ]	1.20
Oxygen balance [%] <sup>(1)</sup>	+0.1
Gas Volume [L/kg] <sup>(1)</sup>	1,023
Heat of explosion [kJ/kg] <sup>(1)</sup>	3,256
RWS [ANFO = 100] <sup>(1,2)</sup>	88
RBS [ANFO = 0.82 g/cm <sup>3</sup> ] <sup>(1,2)</sup>	119
Velocity of detonation [m/s] <sup>(3)</sup> (steel tube)	4,500

Notes:

(1) Theoretical values based on Austin modeling which assumes ideal detonation. Values calculated with other codes may differ. For additional information please contact our sales team.

(2) Determined for density 1.05 g/cm<sup>3</sup>.

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

## SHELF LIFE, STORAGE & DISPOSAL

- Maximum 48 hours from production in the borehole.
- Store in accordance with all applicable local and national legal requirements. If in doubt, contact your supplier or the manufacturer.
- Disposal of explosive materials can be hazardous. Methods of safe disposal of explosives may vary depending on the user's situation. Please contact an Austin Powder Technical Representative for information on safe practices.

## TRANSPORT – UN CLASSIFICATION

Shipping Name: Explosive, Type E  
Class & Division: 1.1D  
ID Number: UN 0241

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through the safe and responsible use of explosives.**

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