



# PRODUCT INFORMATION BROCHURE

†  
5.1

## HYDROMITE 70



**Hydromite 70** is an emulsion blasting agent, is produced on site from a mixture of 70% of Hydrox S with 30% low density ammonium nitrate porous prill and fuel oil sensitized by chemical gassing.

### ADVANTAGES

- 100% borehole coupling and high energy produce maximum performance.
- Good water resistance.
- Chemical sensitization creates the ability to adjust the bulk product's density for variability and flexibility during the loading process.

## PRODUCT OVERVIEW

### TECHNICAL DESCRIPTION

Hydromite 70 is a Hydrox S, low-density ammonium nitrate and fuel oil blend chemically sensitized.

† Hydrox S matrix emulsion is transported and stored as a 5.1 Oxidizer and becomes a 1.5D Blasting Agent after chemical sensitization during the borehole loading process.

Hydromite 70 is pumped directly into the borehole by an approved pump truck or pump unit and is widely used in surface mining, quarrying and construction work.

### APPLICATION RECOMMENDATIONS

- Lower product temperature limit: +5 °C - Higher product temperature limit: +50 °C
- Minimum borehole diameter 2 1/2" (62 mm).
- Not for use in hazardous environments where flammable gases or dust may exist.
- Austin Powder accepts no responsibility for any loss or liability arising from the use of this product in the ground containing pyritic or other reactive material.
- Consult your Austin Powder Technical Representative for advice on all application recommendations.

### PRIMING

Hydromite 70 is non cap sensitive blasting agent and must be in direct contact with a suitable sized cartridge of Emulex 1 or a cast booster for proper initiation.

## PROPERTIES

Properties		Value
Density [g/cc]		0.85 -1.10
Gas Volume [l/kg]		1,094
Relative Weight Strength <sup>(1)</sup>		85
Relative Bulk Strength <sup>(1)</sup>		118
Velocity of detonation (confined) <sup>(2)</sup>	[ft/s]	14,700
	[m/s]	4,500

Notes:

(1) Theoretical values based on Austin modeling which assumes ideal detonation.

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

‡ Energy values are calculated using Explo 5, a thermo-dynamic computer code employed by Austin Powder Company. Other computer codes may give different values. ANFO = 100 @ 0.82 g/cc.

## SHELF LIFE, STORAGE & DISPOSAL

- Store in accordance with all applicable local, state, provincial and federal laws.
- The disposal of explosives needs to comply with local and national laws. Contact Austin Powder with disposal questions.
- These products are designed to be used as they are manufactured from the bulk truck.

## TRANSPORT - UN CLASSIFICATION

Hydromite 70

Shipping Name: Explosive, Blasting, Type E

Class & Division: 1.5D, transported as 5.1

ID Number: UN0332

Hydrox S

Shipping Name: Ammonium Nitrate Emulsion, intermediate for blasting explosives.

Class & Division: 5.1

UN Number: 3375

## US DOT REFERENCE NUMBER

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

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