



# PRODUCT INFORMATION

## BROCHURE

†  
5.1

# HYDROMITE 4000 SERIES



**Hydromite 4000 Series** blends are chemically sensitized blends of Hydrox (oxidizer ANE) and ammonium nitrate prill to provide the shock and heave energy needed to promote the best blast performance

### ADVANTAGES

- 100% borehole coupling and high energy produce maximum performance
- Excellent water resistance promotes success in challenging water conditions
- Chemical sensitization creates the ability to adjust the bulk product's density for variability and flexibility during the loading process

## PRODUCT OVERVIEW

### TECHNICAL DESCRIPTION

Pumpable booster-sensitive bulk emulsion and emulsion / ANFO blend

### APPLICATION RECOMMENDATIONS

- Lower product temperature limit: 40F
- Higher product temperature limit: 125F
- Minimum booster: 1/2 lb. cast booster (e.g. Brown Cap DC, Eagle 225, Eagle E\*STAR 50)
- Minimum borehole diameter 2 1/2" (62mm)
- 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

†Hydromite 4000 Series is transported and stored as a 5.1 Oxidizer and becomes a 1.5D Blasting Agent during the borehole loading process.

## PROPERTIES

Properties	Value
Density [g/cc]	1.20
Oxygen Balance [%] <sup>(1)</sup>	-.09 to -1.8
Water Resistance	Excellent
Relative Weight Strength <sup>(1)</sup>	98 to 100
Relative Bulk Strength <sup>(1)</sup>	143 to 146
Velocity of detonation (confined) <sup>(2)</sup>	[ft/s] 20,000 to 21,000
	[m/s] 5,181 to 5,791

Relative properties derived from an ANFO density = 0.82 g/cc @ 100 bar

Relative energy values based on ANFO = 100

A nominal density of 1.20 g/cc used

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.

## PRIMING

These products are booster-sensitive explosives and must be in direct contact with an appropriate size cast booster. Additional primers may be required depending upon geological conditions and face height. Hydromite Bulk Products

## SHELF LIFE, STORAGE & DISPOSAL

- Store in accordance with all applicable local, state, provincial and federal laws.
- These products are designed to be used as they are manufactured from the bulk truck.

## TRANSPORT – UN CLASSIFICATION

Shipping Name: Explosive, Blasting, Type E

Class & Division: 1.5D, transported as 5.1

ID Number: UN0332

## US DOT REFERENCE NUMBER

EX-1993050178

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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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