



# PRODUCT INFORMATION BROCHURE

1.5D

## HYDROMITE 3



**Hydromite 3** is a blasting agent based on an emulsion blended with ammonium nitrate, providing an excellent combination of detonation velocity and gas volume.

### ADVANTAGES

- High energy allows an extended drilling pattern for more economical blasting cost.
- Develops excellent gas volume for heave displacement.
- Good borehole coupling characteristics when the diameter of product applied is matched to the dimensions of the blast hole.
- Excellent water resistance.

## PRODUCT OVERVIEW

### TECHNICAL DESCRIPTION

Hydromite 3 is non cap sensitive blasting agent mixture of emulsion and low-density ammonium nitrate, packaged in plastic film and plastic tube cartridges.

### APPLICATION RECOMMENDATIONS

- Hydromite 3 can be used in surface and underground mining, quarries and construction work applications.
- Excellent results achieved when used as a column load or as a base charge.
- Not for use in hazardous environments where flammable gases or dust may exist.
- Austin Powder Mexico accepts no responsibility for any loss or liability arising from use of the product in ground containing pyritic or other reactive material.
- Lower temperature limit -15 °C - Upper temperature limit +60 °C.

### PRIMING

Hydromite 3 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]		1.26
Gas Volume [l/kg]		1,112
Relative Weight Strength [ANFO=100] <sup>(1)</sup>		75
Relative Bulk Strength [ANFO=0.82 g/cm <sup>3</sup> ] <sup>(1) ‡</sup>		114
Fume Class		1
Velocity of detonation (confined) <sup>(2)</sup>	[ft/s]	15,748
	[m/s]	4,800

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.

‡ 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.

## STANDARD PACKAGING

Cartridge Type	Cartridge Type		Cartridge Weight		Case Count 55 lb/25kg
	[in]	[mm]	[lb]	[kg]	
Plastic Film	2 ½ x 16	65 x 400	3.65	1.66	15
	3 x 16	75 x 400	5	2.27	11
	4 x 16	100 x 400	9.17	4.16	6
	4 x 24	100 x 600	13.77	6.25	4
Plastic Tube	5 x 24	126 x 600	18.36	8.33	3
	6 x 24	150 x 600	27.55	12.5	2
	8 x 24	200 x 600	55	25	1

Notes:

All dimensions and weights are nominal. Other sizes are available upon request.

## 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.
- Six months from the date of manufacture under good storage conditions.

## TRANSPORT - UN CLASSIFICATION

Shipping Name: Explosive, Blasting, Type E  
 Class & Division: 1.5D  
 ID Number: UN0332

## 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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