

PRODUCT INFORMATION BROCHURE

5.1

HYDROMITE 4100



Hydromite 4100 is a chemically sensitized pure emulsion that provides excellent fragmentation and performance in many blasting applications

ADVANTAGES

- 100% borehole coupling and high energy produce maximum performance
- Good 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 4100 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 [%] (1) | | -7.28 |
| Water Resistance | | Excellent |
| Relative Weight Strength (1) | | 88 |
| Relative Bulk Strength (1) | | 129 |
| Velocity of detonation (confined) (2) | [ft/s] | 20,000 |
| | [m/s] | 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

FX-1993050178

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