



PRODUCT INFORMATION BROCHURE

†
5.1

HYDROMITE 100



QUAD TRUCK
HYDROX S



RED D GEM UNIT
HYDROX U

Hydromite 100 is an emulsion blasting agent which is produced on site by sensitizing an emulsion matrix by chemical gassing.

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

Hydromite 100 is Hydrox S and Hydrox U chemically sensitized.

Hydromite 100 is pumped directly into the borehole by an approved pump truck or pump unit.

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

APPLICATION RECOMMENDATIONS

- Lower product temperature limit: +5 °C - Higher product temperature limit: +50 °C.
- Hydromite 100 (Hydrox S emulsion matrix): Minimum borehole diameter 2 1/2" (62 mm).
- Hydromite 100 (Hydrox U emulsion matrix): Minimum borehole diameter 1 3/8" (35 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 100 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	
Emulsion Matrix		Hydrox S	Hydrox U
Use		Surface mining	Underground Mining
Density [g/cc]		1.05 - 1.15	0.90 - 1.15
Gas Volume [l/kg]		1,121	1,122
Relative Weight Strength ⁽¹⁾		72	77
Relative Bulk Strength ⁽¹⁾		92	103
Velocity of detonation (confined) ⁽²⁾	[ft/s]	15,500 - 18,000	15,500 - 18,000
	[m/s]	4,700 - 5,500	4,700 - 5,500

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 100
 Shipping Name: Explosive, Blasting, Type E
 Class & Division: 1.5D, transported as 5.1
 ID Number: UN0332

Hydrox S and Hydrox U
 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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