

Hydromite 1

PRODUCT INFORMATION BROCHURE

Hydromite 1 is a blasting agent based on an emulsion blended with ammonium nitrate; providing an excellent combination of detonation velocity and gas volume. Widely used in surface mining, quarrying and construction work. Excellent results achieved when used as a column load or as a base charge. Hydromite 1 can be initiated by a suitable sized cartridge of Emulex 1 or APB.

ADVANTAGES

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

PROPERTIES

Properties	Value
Nominal Density [g/cm ³]	1.25
Oxygen balance [%] ⁽¹⁾	+0.1
Gas Volume [L/kg] ⁽¹⁾	995
Heat of explosion [kJ/kg] ⁽¹⁾	2,870
Relative weight strength [ANFO=100] ⁽¹⁾	78
Relative bulk strength [ANFO=0.85 g/cm ³] ⁽¹⁾	109
Velocity of detonation [m/s] (without confinement, booster, cartridge diameter 65 mm) ⁽²⁾	5,200

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.



AUSTIN POWDER

Austin Powder GmbH, Weißenbach 16, 8813 St. Lambrecht, Austria
Tel: +43 (0) 3585 2251-0 - Fax: +43 (0) 3585 2414 - office@austinpowder.at

Hydromite 1

PRODUCT INFORMATION BROCHURE

STANDARD PACKAGING

Cartridge Size mm	Cartridge Weight kg	Box Weight kg
65 x 700	3.125	25.0
75 x 700	3.600	25.2

Notes: Size and weight are nominal values and may show production related variations. Other sizes are available on request.

STORAGE

- Lower temperature limit 0 °C (max. 3 months of storage down to -10 °C).
- Upper temperature limit +30 °C.

USE

- Lower temperature limit 0 °C.
- Upper temperature limit +50 °C.
- Minimum booster APB 450 or emulsion explosive (e.g. Emulex 1 or APB).
- Maximum static overpressure 0.3 MPa (3 bar) for 24 hours.
- Not for underground use.
- Not for use in hazardous environments where flammable gases or dust may exist.
- Austin accepts no responsibility for any loss or liability arising from use of the product in ground containing pyritic or other reactive material.

SHELF LIFE

1 year from the date of manufacture.

DISPOSAL

In accordance with local and national legal requirements. In doubt contact your supplier or the manufacturer.

TRANSPORTATION DATA

Shipping Name: EXPLOSIVE, TYPE E

UN Class and Division: 1.1D

UN Number: 0241

DISCLAIMER: The data set forth in this Product Information Brochure (PIB) are based on the product test procedures of Austin Powder GmbH in use at the time of publication of this PIB. Specifications, test values and information are exclusively non-binding preliminary information and are not guaranteed; the actual data may differ for various reasons (e.g. temperature, humidity, pressure). Technical inaccuracies or typographical errors and the right to amend the PIB at any time without notice shall be reserved. Austin Powder GmbH does not assume any liability, covenants, guaranties or warranties with respect to the completeness, accuracy, reliability, suitability or availability of the product and the information of the PIB. Any liability for damages of any kind (such as direct or indirect, incidental or consequential damages, losses or expenses), directly or indirectly related for any reason to this PIB or the use of the products is excluded. The customer is (even when making decisions based on the information in the PIB) solely responsible for the proper use of the potentially dangerous products that, accordingly, may only be used by trained personnel and in compliance with applicable law. To the entire legal relationship between their customers and Austin Powder GmbH or Austin Powder Vertriebsgesellschaft m.b.H. their (Austin's) general terms and conditions (they can be downloaded from the homepage www.austinpowder.at) shall apply.



AUSTIN POWDER

Austin Powder GmbH, Weißenbach 16, 8813 St. Lambrecht, Austria
Tel: +43 (0) 3585 2251-0 - Fax: +43 (0) 3585 2414 - office@austinpowder.at

03/2020

