

Hydromite^e 70

PRODUCT INFORMATION BROCHURE

Hydromite 70 is a booster sensitive bulk emulsion made from a mixture of 70% of Hydrox S with 30% low density ammonium nitrate porous prill and fuel oil. This emulsion is sensitized by chemical gassing. Hydromite 70 is widely used in surface mining, quarrying and construction work.

ADVANTAGES

- Variation in final densities possible.
- Excellent water resistance
- Develops high gas volume for enhanced muck pile heave.
- Very good filling of the boreholes
- Very low sensitivity against mechanical and thermal stress

PROPERTIES

Properties	Value
Density [g/cm ³]	1.15 – 1.25
Oxygen balance [%] ⁽¹⁾	-1.0
Gas Volume [L/kg] ⁽¹⁾	965
Heat of explosion [kJ/kg] ⁽¹⁾	3,151
Relative weight strength [ANFO=100] ⁽¹⁾	83
Relative bulk strength [ANFO=0.85 g/cm ³] ⁽¹⁾	122
Velocity of detonation [m/s] (steel tube) ⁽²⁾	4,500

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
INTERNATIONAL

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

Hydromite^e 70

PRODUCT INFORMATION BROCHURE

USE

- Lower temperature limit +5 °C
- Upper temperature limit +50 °C
- Minimum booster APB 450 or emulsion explosive (e.g. Emulex 1)
- Minimum borehole diameter 75 mm
- Not for use in hazardous environments where flammable gases or dust may exist
- Not for underground use
- 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

Maximum 48 hours from production in the borehole

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
INTERNATIONAL

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

11/2015

