



PRODUCT INFORMATION

BROCHURE

1.1D

HYDROMITE 100



Hydromite 100 is a booster sensitive emulsion explosive which is produced on site by sensitizing an emulsion matrix by chemical gassing. Hydromite 100 is pumped directly into the borehole by an approved pump truck or pump unit.

PRODUCT OVERVIEW

PROPERTIES

Nominal Density [g/cm ³]	1.20
Oxygen balance [%] ⁽¹⁾	-0.3
Gas Volume [L/kg] ⁽¹⁾	1,009
Heat of explosion [kJ/kg] ⁽¹⁾	2,996
Relative weight strength [ANFO=100] ⁽¹⁾	81
Relative bulk strength [ANFO=0.82 g/cm ³] ⁽¹⁾	109
Velocity of detonation [m/s] (confined) ⁽²⁾	4,000

Notes:

⁽¹⁾ Energy values are calculated using Explo 5, a thermo-dynamic computer code employed by Austin Powder Company. Other computer codes may give different values.

⁽²⁾ The velocity of detonation will depend on application, diameter and confinement.

BENEFITS

- Excellent water resistance
- Very low amount of toxic fumes
- Very low sensitivity against mechanical and thermal stress
- Very good filling of the boreholes
- Suitable for either underground or open pit use

USE

- Lower temperature limit +5 °C
- Upper temperature limit +50 °C
- Minimum booster APB 20 or cartridge emulsion explosive (e.g. Emulex 1).
- Minimum borehole diameter 35 mm
- Not for use in hazardous environments where flammable gases or dust may exist
- Maximum static overpressure 3 bar (0.3 MPa)
- 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, STORAGE & DISPOSAL

- Shelf life is maximum 48 hours from production in the borehole.
- Disposal: According to local regulations. If you have any questions, ask the supplier.

TRANSPORT – UN CLASSIFICATION

Shipping Name: EXPLOSIVES FOR BLASTING TYPE E
Class & Division: 1.1D
ID Number: UN 0241

Contact your local Austin Powder representative for further information.

Disclaimer of Warranties and Limitations of Liabilities: © 2023 Austin Powder Argentina S.A. All rights reserved. All information contained in this document is provided for informational purposes only and is subject to change without notice. Since the Austin Powder Argentina S.A. cannot anticipate or control the conditions under which this information and its products may be used, each user should review the information in the specific context of the intended application. To the maximum extent permitted by law, Austin Powder Argentina S.A. specifically disclaims all warranties express or implied in law, including accuracy, non-infringement, and implied warranties of merchantability or fitness for a particular purpose. Austin Powder Argentina S.A. specifically disclaims and will not be responsible whatsoever for any and all injuries (including death), losses, or damages to persons or property resulting from the use or reliance upon the information in this document.



AUSTIN POWDER

Our Mission is to improve the world we live in through the safe and responsible use of explosives.

Austin Powder Argentina S.A. | Luis Maggi 770, Rafaela, Santa Fe, 2300 Argentina
austinpowder.com | apa.comercial@austinpowder.com | Phone +54 3492 424 775