

# **PRODUCT INFORMATION** BROCHURE

# 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.

.1D

## PRODUCT OVERVIEW

#### **ADVANTAGES**

- 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 underground use.

### **APPLICATION RECOMMENDATIONS**

- Lower temperature limit +5 °C.
- Upper temperature limit +50 °C.
- Minimum booster APB 25. At larger diameters the initiation method has to be adjusted accordingly.
- 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.

#### PROPERTIES

Properties	Value
Nominal Density [g/cm3]	1.20
Oxygen balance [%] (1)	-0.3
Gas Volume [L/kg] (1)	1,009
Heat of explosion [kJ/kg] <sup>(1)</sup>	2,996
RWS [ANFO = 100] <sup>(1)</sup>	81
RBS [ANFO = $0.82 \text{ g/cm}^3$ ] (1,2)	109
Velocity of detonation [m/s] <sup>(3)</sup> (confined)	4,000

Notes:

(1) Theoretical values based on Austin modeling which assumes ideal detonation. Values calculated with other codes may differ. For additional information please contact our sales team.

(2) Determined for density 1.05 g/cm<sup>3</sup>.

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

#### **SHELF LIFE, STORAGE & DISPOSAL**

- Maximum 48 hours from production in the borehole.
- Store in accordance with all applicable local and national legal requirements. If in doubt, contact your supplier or the manufacturer.
- Disposal of explosive materials can be hazardous. Methods of safe disposal of explosives may vary depending on the user's situation. Please contact an Austin Powder Technical Representative for information on safe practices.

#### **TRANSPORT – UN CLASSIFICATION**

Shipping Name: Explosive, Type E Class & Division: 1.1D ID Number: UN 0241

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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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