

Emulex 2 plus

PRODUCT INFORMATION BROCHURE

Emulex 2 plus is a detonator sensitive emulsion with a higher density, higher energy content and higher heat of explosion than standard emulsion explosives. It contains aluminium to enhance heave. Emulex 2 plus can be used as a replacement for dynamites in quarry blasting as well as for tunneling. Emulex 2 plus is also suitable for use as booster charge for less sensitive explosives such as ANFO and blasting agents.

ADVANTAGES

- Very high energy allows an extended drilling pattern for more economical blasting cost.
- Develops good 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.
- Good handling due to stiff cartridges.

PROPERTIES

Properties	Value
Density [g/cm ³]	1.24
Oxygen balance [%] ⁽¹⁾	-1.4
Gas Volume [L/kg] ⁽¹⁾	845
Heat of explosion [kJ/kg] ⁽¹⁾	3,978
Relative weight strength [ANFO=100]	113
Relative bulk strength [ANFO=0.85 g/cm ³]	165
Velocity of detonation [m/s] ⁽²⁾ (without confinement)	4500 (diameter 35 mm) 5,400 (diameter 65 mm)

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

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STANDARD PACKAGING

Cartridge Size [mm]	Cartridge Weight [kg]	Box Weight [kg]
35 x 700	0.840	25.2
65 x 700	3.125	25.0
80 x 700	4.200	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 -15 °C
- Upper temperature limit +60 °C
- Minimum detonator 0.7 g PETN or detonator of comparable strength
- Maximum static overpressure 0.3 MPa (3 bar) for 24 hours
- 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

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