Emulex 2 plus

PRODUCT INFORMATION BROCHURE

Emulex 2 Plus is a detonator sensitive emulsion with a higher energy and higher heat of explosion than standard emulsion explosives. It is a grey color as it contains aluminum to enhance heave.
Emulex 2 Plus can be used as a replacement for dynamites and slurries in quarry blasting as well as for tunneling. It is also suitable for use as booster for less sensitive explosives such as blasting agents (E.g. ANFO).

ADVANTAGES

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

PROPERTIES

Diameter (mm)	**≤ 32mm**	**38mm**	**≥ 40mm**
Nominal density [g/cm^3]	1,10	1,13	1,17
Oxygen balance [%] (1)	-1,4		
Gas volume [L/kg] (1)	845		
Heat of explosion [kJ/kg] (1)	3.978		
RWS [ANFO=100]	113		
RBS [ANFO=0.85 g/cm^3]	165		
VOD [m/s] (2) (without confinement)	4.200	4.500	5.000

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 Argentina S.A. Lola Mora 421 Piso 5 Of 503, C1107DDA CABA, Argentina
Teléfono +54 11 5245-8588 - comercial@austin.com.ar | www.austin.com.ar

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STANDARD PACKAGING

Cartridge size [mm]	Cartridge box Und	Nominal cartridge weight [kg]	Nominal box weight [kg]
25 x 300	140	0,178	25,0
32 x 300	85	0,293	25,0
38 x 300	58	0,430	25,0
50 x 500	21	1,183	25,0

Cartridge size [mm]	Cartridge box Und	Nominal cartridge weight [kg]	Nominal box weight [kg]
60 x 500	15	1,655	25,0
70 x 500	11	2,260	25,0
80 x 500	8	3,080	25,0
90 x 500	7	3,513	25,0

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)
- Maximum temperature storage limit 30° C (max. 3 months)

USE

- Lower temperature limit -20 °C
- Upper temperature limit +60 °C
- Prime with a minimum detonator 0.7 g PETN or detonator of comparable strength
- Do not prime with detonating cord
- Do not cut or squeeze cartridges when loading
- Maximum static overpressure 0.3 MPa (3 bar) for 24 hours
- 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

12 (twelve) months 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

Contact your local Austin Powder representative for further information.

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