



PRODUCT INFORMATION

BROCHURE

1.1D

EMULEX 2 PLUS



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 colour as it contains aluminium to enhance heave.

Emulex 2 Plus can be used as a replacement for dynamites and slurries in quarry blasting as well as for tunnelling. It is also suitable for use as booster for less sensitive explosives such as blasting agents (E.g. AnFo).

PRODUCT OVERVIEW

PROPERTIES

Nominal density [g/cm ³]	1.20
Oxygen balance [%] ⁽¹⁾	-1.9
Gas volume [L/kg] ⁽¹⁾	928
Heat of explosion [kJ/kg] ⁽¹⁾	4,064
RWS [ANFO=100]	110
RBS [ANFO=0.82 g/cm ³]	153
Nominal VOD [m/s] ⁽²⁾ (unconfined)	4,400 (Ø < 50mm) ⁽³⁾ 4,900 (Ø ≥ 50mm) ⁽³⁾

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.

⁽³⁾ Value obtained starting with detonator with base load of 400 mg of PETN.

BENEFITS

- 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.

STANDARD PACKAGING

Cartridge size [mm]	Cartridge / Box Units	Net weight box (± 3%) [kg]	Gross box weight (± 3%) [kg]
32 x 300	85	25.0	26.2
50 x 500	21		
60 x 500	15		
70 x 500	11		

Notes: Other sizes are available on request.

USE

- Lower temperature limit -20 °C
- Upper temperature limit +60 °C
- Minimum detonator 0.64 g PETN or detonator of comparable strength
- Do not initiate with detonating cord
- 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
- Do not cut or squeeze cartridges when loading

SHELF LIFE, STORAGE & DISPOSAL

- Shelf life is 12 (twelve) months from the date of manufacture.
- This product must be stored in magazines for high explosives. These magazines must meet the current legal requirements.
- In case of presenting the following condition, do not guaranteed the shelf life:
 - Lower temperature limit 0 °C (the storage will be only for 3 months if the temperature is constant, by down 0 °C until -10 °C)
 - Maximum temperature storage 30 °C (the storage will be only for 3 months if the temperature is constant, by above 30 °C)
- Disposal: In accordance with local and national legal requirements. In doubt contact your supplier or the manufacturer.

Contact your local Austin Powder representative for further information.

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TRANSPORT – UN CLASSIFICATION

Shipping Name: EXPLOSIVE, BLASTING, TYPE E.
 Class & Division: 1.1D
 ID Number: UN 0241



AUSTIN POWDER

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