

# 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 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).

## 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

Properties	Value
Nominal density [g/cm <sup>3</sup> ]	1,16
Oxygen balance [%] <sup>(1)</sup>	-1,4
Gas volume [L/kg] <sup>(1)</sup>	845
Heat of explosion [kJ/kg] <sup>(1)</sup>	3.978
RWS [ANFO=100]	108
RBS [ANFO=0.85 g/cm <sup>3</sup> ]	140
VOD [m/s] <sup>(2)</sup> (without confinement)	4.400 (diameter 32 mm) 5.000 (diameter 60 mm)

Notes:

<sup>(1)</sup> Theoretical values based on Austin modeling which assumes ideal detonation. Values calculated with other codes may differ.

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



**AUSTIN POWDER**

Austin Powder Argentina S.A. | Luis Maggi 770, Rafaela, Santa Fe, 2300 Argentina  
Telephone +54 3492 424 775 - [apa.comercial@austinpoder.com](mailto:apa.comercial@austinpoder.com) | [www.austinpoder.com](http://www.austinpoder.com)

# Emulex 2 plus

PRODUCT INFORMATION BROCHURE

## STANDARD PACKAGING

Cartridge size	Cartridge box	Nominal cartridge weight	Nominal box weight	Cartridge size	Cartridge box	Nominal cartridge weight	Nominal box weight
[mm]	Und	[kg]	[kg]	[mm]	Und	[kg]	[kg]
25 x 300	140	0,178	25,0	60 x 500	15	1,655	25,0
32 x 300	85	0,293	25,0	70 x 500	11	2,260	25,0
38 x 300	58	0,430	25,0	80 x 500	8	3,080	25,0
50 x 500	21	1,183	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 30 °C (above 30 °C, max. 3 months)

This product must be stored in magazines for high explosives. These magazines must meet the current legal requirements

## 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
- 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, BLASTING, TYPE E

UN Class and Division: 1.1D

UN Number: 0241

Contact your local Austin Powder representative for further information.

### Disclaimer of Warranties and Limitations of Liabilities

© 2020 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

Austin Powder Argentina S.A. | Luis Maggi 770, Rafaela, Santa Fe, 2300 Argentina  
Telephone +54 3492 424 775 - [apa.comercial@austinpoder.com](mailto:apa.comercial@austinpoder.com) | [www.austinpoder.com](http://www.austinpoder.com)

