



# PRODUCT INFORMATION

## BROCHURE

1.1D

# EMULINE



**Emuline** is a detonator sensitive emulsion specially designed for controlled blasting applications requiring de-coupling of the explosive charge. The product can be used for presplitting, post splitting and smooth blasting applications, as well as Underground mining, Surface mining and Quarrying. Emuline is packaged as continuous emulsion cartridges with an attached line of 15 g/m detonating cord.

## PRODUCT OVERVIEW

### PROPERTIES

Density (g/cm <sup>3</sup> ), nominal	1.10
Nominal VOD of detonating cord (m/s) (not confined)	>6,500

### PROPERTIES FOR EMULEX

Oxygen balance [%] <sup>(1)</sup>	+2.0
Gas volume [L/kg] <sup>(1)</sup>	991
Heat of explosion [kJ/kg] <sup>(1)</sup>	3,041
RWS [ANFO=100]	83
RBS [ANFO=0.82 g/cm <sup>3</sup> ]	111

Notes:

<sup>(1)</sup> Energy values are calculated using Explo 5, a thermo-dynamic computer code employed by Austin Powder Company. Other computer codes may give different values.

### BENEFITS

- Emuline distributes the load uniformly through the presplit boreholes.
- The detonating cord ensures reliable detonation of the de-coupled charge.
- Reduces damage to the final wall as the charge is de-coupled from the rock to be left in situ.
- Excellent water resistance.
- Good operational handling. The continuous length of emulsion cartridges can be cut to customer requirements length.

## STANDARD PACKAGING

Cartridge Size (mm)	Strip Length (m)	Units of strip by box	Box Net weight ( $\pm 3\%$ )	Box Gross weight ( $\pm 3\%$ )
25 x 500	30	1	17	18.2
32 x 500	20	1	18	19.2
40 x 500	8	2	22	23.2

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 or 5 gram or larger detonating cord attached to the 15 g/m detonating cord that traces the Emuline. The detonating cord tracing the Emuline must be dry.
- Not for use in hazardous environments where flammable gases or dust may exist.
- Austin Powder Argentina 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
- The ratio of the diameter of the cartridge to the borehole diameter is an important variable, ask a technical representative if any doubt.

## 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: According to local and national laws. If in doubt consult the supplier.

## TRANSPORT – UN CLASSIFICATION

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

Contact your local Austin Powder representative for further information.

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**AUSTIN POWDER**

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

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