

PRODUCT INFORMATION BROCHURE

EMULEX 1



Emulex 1 is a detonator sensitive emulsion with an excellent combination of velocity of detonation and good gas generation characteristics that can be used as column loads or as primers for blasting agents

1.1D

ADVANTAGES

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

PRODUCT OVERVIEW

TECHNICAL DESCRIPTION

Emulex 1 is a detonator-sensitive emulsion. Emulex 1 is packaged in plastic film and plastic tube.

APPLICATION RECOMMENDATIONS

- Emulex 1 can be used in surface and underground mining, quarries and construction work applications when blasting final walls and slopes.
- Not for use in hazardous environments where flammable gases or dust may exist.
- Austin Powder Mexico accepts no responsibility for any loss or liability arising from use of the product in ground containing pyritic or other reactive material.
- Lower temperature limit -15 °C Upper temperature limit +60 °C.

PRIMING

When priming Emulex 1 the use of a high strength detonator is required (minimum 640 mg PETN).

PROPERTIES

Properties	Value						
		1.12 (Ø < 50 mm / 2 inches)					
Density [g/cc]	1.16 (Ø < 50 mm) / 2 inches)						
Gas Volume [l/kg]	1,023						
Relative Weight Strength [ANFO=100] (1)	86						
Relative Bulk Strength [ANFO=0.82 g/cm ³] (1) ‡	118						
Fume Class	1						
Velocity of detonation (confined) (2)	[ft/s]	16,400					
	[m/s]	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.

‡ Energy values are calculated using Explo 5, a thermo-dynamic computer code employed by Austin Powder Company. Other computer codes may give different values. ANFO = 100 @ 0.82 g/cc.

STANDARD PACKAGING

Cartridge Type	Cartridge Type		Cartridge Weight		Case Count
	[in]	[mm]	[lb]	[kg]	55 lb/25kg
	1 x 8	25 x 200	0.271 – 0.255	0.123 – 0.116	203 – 215
Plastic Film	1 x 16	25 x 400	0.540 – 0.511	0.245 – 0.232	102 – 108
	1 x 39	25 x 1000	1.311 – 1.252	0.595 – 0.568	42 - 44
	1 ¼ x 16	32 x 400	0.835 – 0.787	0.379 – 0.357	66 – 70
	1 ¼ x 39	32 x 1000	1.968 – 1.836	0.893 – 0.833	32
	1 3/8 x 37	35 x 940	2.204	1	25
	1 ½ x 8	38 x 200	0.599 – 0.562	0.272 – 0.255	92 – 98
	1 ½ x 16	38 x 400	1.197 – 1.148	0.543 – 0.521	46 - 48
	1 ½ x 39	38 x 1000	3.064 – 2.755	1.390 –1.250	18 - 20
	2 x 8	50 x 200	1.102	0.5	50
	2 x 16	50 x 400	2.204	1	25
	2 ½ x 16	65 x 400	3.672	1.666	16
	3 x 8	75 x 200	2.204	1	25
	3 x 16	75 x 400	5.011	2.273	11
	3 ½ x 16	90 x 400	6.889	3.125	8
	4 x 8	100 x 200	4.592	2.083	12
	4 x 16	100 x 400	9.186	4.167	6
	4 x 24	100 x 600	13.778	6.25	4
Plastic Tube	5 x 24	127 x 600	18.371	8.333	3

Notes:

All dimensions and weights are nominal. Other sizes are available upon request.

SHELF LIFE, STORAGE & DISPOSAL

• Store in accordance with all applicable local, state, provincial, and federal laws.

AUSTIN POWDER

- The disposal of explosives needs to comply with local and national laws. Contact Austin Powder with disposal questions.
- One year from the date of manufacture under good storage conditions.

TRANSPORT - UN CLASSIFICATION

Shipping Name: Explosive, Blasting, Type E Class & Division: 1.1D ID Number: UN0241

US DOT REFERENCE NUMBER

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

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