



PRODUCT INFORMATION

BROCHURE

1.1D

EMULINE

OVERBREAK CONTROL



RED-D LITE E WITH EMULINE

Emuline is a detonator sensitive continuous emulsion cartridge with an attached line of detonating cord that designed for use in controlled blasting applications where de-coupling of a charge is required.

ADVANTAGES

- Packaged in a tough film cartridge
- Continuous lengths can be easily cut to desired lengths

PRODUCT OVERVIEW

TECHNICAL DESCRIPTION

Continuous Detonator Sensitive Emulsion Cartridge

APPLICATION RECOMMENDATIONS

- Emuline can be used in surface and underground applications when blasting final walls and slopes
- Emuline is ideal for controlled blasting applications such as pre-splitting, post-splitting, trim blasting, and smooth wall blasting where de-coupling of an explosive is required

PRIMING

When priming Emuline, the use of a high-strength detonator (Rock*Star, Shock*Star, or equivalent) is required. If priming with detonating cord, A-Cord (25gr/ft) should be attached securely to the Emuline detonating cord using an appropriate knot.

PROPERTIES

Properties	Emuline	
Density [g/cc]	1.16	
Oxygen Balance [%] ⁽¹⁾	-0.6	
Gas Volume [l/kg]	982	
Relative Weight Strength [ANFO=100] ⁽¹⁾	102	
Relative Bulk Strength [ANFO=0.82 g/cm ³] ^{(1) ‡}	144	
Fume Class	1	
Heat of Explosion	2,022	
Detonation Pressure [kb]	79	
Velocity of detonation (confined) ⁽²⁾	[ft/s]	14,000
	[m/s]	4,270

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 Size		Cartridge Weight		Case Quantity	
	[in]	[mm]	[lb]	[kg]	[ft]	[m]
Continuous Stick	7/8	22	0.31	0.47	160 (+/- 6)	48.8 (+/- 1.8)
	1 ¼	32	0.59	0.88	107 (+/-3)	32.6 (+/- .9)

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.
- 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

EX-993050177

Disclaimer of Warranties and Limitations of Liabilities: Products described in this document are sold by Austin Powder without warranty; express, implied or statutory or as to MERCHANTABILITY, except as expressly stated in Austin Powder's straight bill of lading. Under no circumstances shall seller be liable for loss of anticipated profits, consequential damages or incidental damages. For more information and service locations please contact Austin Powder's headquarters:



AUSTIN POWDER

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