



# PRODUCT INFORMATION

## BROCHURE

1.1D

# RED-D LITE-E



**Red-D Lite-E** is a detonator-sensitive cartridge emulsion designed for perimeter blasting and overbreak control

### ADVANTAGES

- Packaged in rigid paper cartridges
- Allows for custom lengths to be created
- Couplers allow for charges to be quickly connected together

## PRODUCT OVERVIEW

### TECHNICAL DESCRIPTION

Red-D Lite-E is a detonator sensitive emulsion cartridge. It 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.

### APPLICATION RECOMMENDATIONS

- Ideal for overbreak and perimeter control in underground and surface blasting applications.
- Designed for controlled blasting applications where de-coupling of an explosive is required.
- Cartridges can be quickly connected together using couplers to create custom lengths

### PRIMING

- When priming Red-D Lite-E the use of a high-strength detonator (Rock\*Star, Shock\*Star or equivalent) is required.
- If the product temperature is below 20F (-6C), prime with a minimum of a Gold Nugget (8g) cast booster.
- This product is not designed for use with any strength of detonating cord.

# PRODUCT INFORMATION

## PROPERTIES

Properties	Red-D
Density [g/cc]	1.16
Oxygen Balance [%] <sup>(1)</sup>	-0.6
Gas Volume [l/kg]	983
Relative Weight Strength [ANFO=100] <sup>(1)</sup>	94
Relative Bulk Strength [ANFO=0.82 g/cm <sup>3</sup> ] <sup>(1) ‡</sup>	133
Fume Class	1
Heat of Explosion	2,022
Detonation Pressure [kb]	79
Velocity of detonation (confined) <sup>(2)</sup>	[ft/s] 18,166
	[m/s] 5,537

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 Count
	[in]	[mm]	[lb]	[kg]	#
AT Tube	7/8 x 24	22 x 600	0.30	0.43	83

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

## STANDARD TECHNICAL DESCRIPTION

Rigid Paper Cartridge Detonator Sensitive Emulsion

### 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-1993050177

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.**

Austin Powder, 25800 Science Park Drive, Cleveland, OH 44112 USA  
austinpowder.com | info@austinpowder.com | Phone 1-800-321-0752 | Fax 1-216-464-4418