



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.

PROPERTIES

Properties	Red-D	
Density [g/cc]	1.16	
Oxygen Balance [%] ⁽¹⁾	-0.6	
Gas Volume [l/kg]	983	
Relative Weight Strength [ANFO=100] ⁽¹⁾	94	
Relative Bulk Strength [ANFO=0.82 g/cm ³] ^{(1) ‡}	133	
Fume Class	1	
Heat of Explosion	2,022	
Detonation Pressure [kb]	79	
Velocity of detonation (confined) ⁽²⁾	[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	0.60	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

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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