



# PRODUCT INFORMATION

## BROCHURE

1.1D

# EMULEX 900 SERIES



**Emulex 900 Series** Emulex 917 and 927 are detonator sensitive packaged explosives that can be used as column loads or as primers for blasting agents.

### ADVANTAGES

- Excellent fragmentation when the proper grade is matched to the rock conditions.
- Able to achieve >99% coupling within the borehole when cartridges are cut or tamped
- Has excellent resistance to water infiltration
- Provides superior resistance to instances of dynamic pre-compression from adjacent boreholes
- Emulex 927 has added Aluminum provides for increased energy output in tough blasting conditions

## PRODUCT OVERVIEW

### TECHNICAL DESCRIPTION

Emulex 917 is a detonator-sensitive emulsion explosive with a putty-like texture. Emulex 917 can be packaged in plastic film, tampable plastic film, or a rigid paper cartridge.

### APPLICATION RECOMMENDATIONS

Emulex 900 Series is ideal in borehole sizes ranging from 1" to 3" inches in diameter, either as a column load or as a primer to blasting agents.

### PRIMING

- When priming Emulex 900 Series, a high-strength detonator (Rock\*Star, Shock\*Star or equivalent ) is required for proper initiation.
- If the product temperature is below 0 F (-17 C), priming will require a minimum of a Gold Nugget (8g) cast booster.
- This product is not designed for use with any strength of detonating cord.

### STANDARD TECHNICAL DESCRIPTION

Detonator sensitive emulsion

## PROPERTIES

Properties	Emulex 917	Emulex 927	
Density [g/cc]	1.16	1.16	
Oxygen Balance [%] <sup>(1)</sup>	-0.6	-3.2	
Gas Volume [l/kg]	982	933	
Water Resistance	Excellent	Excellent	
Relative Weight Strength [ANFO=100] <sup>(1)</sup>	94	102	
Relative Bulk Strength [ANFO=0.82 g/cm <sup>3</sup> ] <sup>(1) ‡</sup>	133	144	
Detonation Pressure	79	80	
Heat of Explosion	2,022	2,199	
Fume Class	1	1	
Velocity of detonation (confined) <sup>(2)</sup>	[ft/s]	18,166	17,921
	[m/s]	5,537	5,462

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 50 lb/22.5 kg
	[in]	[mm]	[lb]	[kg]	
Plastic Film <i>Emulex 917 and 927</i>	1.25 x 12	32 x 300	0.67	0.30	75
	1.5 x 12	38 x 300	0.88	0.40	57
	1 ¾ x 16	44 x 400	1.61	0.73	31
	2 x 16	50 x 400	2.27	1.03	22
Austin Tube (AT) <i>Emulex 927</i>	1 ½ x 16	38 x 400	1.28	0.58	39
	1 ¾ x 16	44 x 400	1.61	0.73	31
Austin Tube (AT) <i>Emulex 917</i>	2 ¼ x 12	57 x 300	1.86	0.84	27
Bullet Nose Austin Tube (BNAT) <i>Emulex 917 &amp; 927</i>	2 x 16	50 x 400	2.27	1.03	22

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-9305177

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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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