



PRODUCT INFORMATION

BROCHURE

1.1D

EAGLE E★STAR CAST BOOSTERS



Austin Powder's **Eagle E★STAR Family of Cast Boosters** are high-density molecular explosives designed to produce high detonation pressures for optimum initiation of blasting agents. The Eagle E★STAR Family of cast boosters are **designed to be initiated by electronic detonators** with a minimum base charge of 450mg of PETN. Eagle cast boosters are **not** designed for use with detonating cord.

PRODUCT OVERVIEW

TECHNICAL DESCRIPTION

Austin Powder Eagle E★STAR cast boosters are manufactured with molecular explosives consisting of PETN and TNT, both of which are sensitive to severe impact, heat or friction. As with all explosives, Eagle boosters must be transported, stored and handled with care. Avoid any impact with solid surfaces.

APPLICATION RECOMMENDATIONS

- **For use with Electronic Detonator Only**
- Austin Powder Eagle E★STAR Cast Boosters are ideal for priming boreholes that are 2" or larger in diameter.
- Eagle E★STAR cast boosters are **NOT** designed for use with detonating cord.

PRIMING RECOMMENDATIONS

- Eagle E★STAR cast boosters are able to be initiated by non-electric, electric, and electronic detonators with a minimum of a 450mg PETN base charge.

ADVANTAGES

- Detonate in excess of 24,000 ft. /sec (7,380 m/sec).
- Detonate with a pressure over 225 kb ensuring optimum steady-state velocity for blasting agents.
- Feature a fully enclosed detonator well with an internal detonator locking device.
- Poured in high visibility, impact-resistant Orange polypropylene cups, and can be used in temperatures ranging from -40F - 150F.
- Eagle cast boosters are highly resistant to water and oil, and feature an excellent shelf life

PROPERTIES

Properties	Value
Nominal Density [g/cm ³]	1.68
Relative Weight Strength [ANFO=100] ⁽¹⁾	187
Relative Bulk Strength [ANFO=0.85 g/cm ³] ⁽¹⁾	384
Velocity of detonation ⁽²⁾	[ft/s] 24,187
	[m/s] 7,597
Detonation Pressure [kb]	239

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 Explor 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

Product Name	Weight		Outside Diameter		Length		Unit Per Case	Minimum Hole Diameter	
	[oz]	[g]	[in]	[mm]	[in]	[mm]		[in]	[mm]
Eagle E★STAR 225	8	225	1.7	43	4.8	123	64	2	50
Eagle E★STAR 340	12	340	2.1	53	4.8	123	49	2.5	63
Eagle E★STAR 450	16	450	2.3	58	4.8	123	30	3.0	76
Eagle E★STAR 500*	18	510	2.6	66	4.5	115	30	4	101
Eagle E★STAR 900	32	900	3.1	78	4.8	123	18	4	101

*Features a double capwell (3-hole)

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

STANDARD PACKAGING DETAILS

Eagle E★STAR Boosters are priming blasting agents for use with Electronic Detonators Only.

SHELF LIFE, STORAGE & DISPOSAL

- Shelf life is five years from date of manufacture, under good storage conditions.
- Store in accordance with all applicable local, state, provincial and federal laws.
- Disposal of explosive materials can be hazardous. Methods of safe disposal of explosives may vary depending on the user's situation. Please contact an Austin Powder Technical Representative for information on safe practices.

TRANSPORT - UN CLASSIFICATION

Shipping Name: Boosters
 Class & Division: 1.1D
 ID Number: UN 0042

US DOT REFERENCE NUMBER

EX-1993030285

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AUSTIN POWDER

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