



PRODUCT INFORMATION

BROCHURE

1.1D

EAGLE CAST BOOSTERS



Austin Powder's **Eagle Family of Cast Boosters** are high-density molecular explosives designed to produce high detonation pressures for optimum initiation of blasting agents. The Eagle Family of cast boosters are designed to be initiated by non-electric, electric and 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 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

- Austin Powder Eagle Cast Boosters are ideal for priming bulk agents in boreholes that are 2" or larger in diameter.
- Eagle cast boosters are NOT designed for use with detonating cord.

PRIMING RECOMMENDATIONS

- Eagle cast boosters can be initiated by non-electric, electric and electronic detonators with a minimum of a 450mg PETN base charge.
- Eagle cast boosters are NOT designed for use with detonating cord.

ADVANTAGES

- Eagle cast boosters detonate in excess of 24,000 ft. /sec (7,380 m/sec)
- Eagle cast boosters detonate with a pressure over 225 kb ensuring optimum steady state velocity for blasting agents
- Eagle cast boosters feature a fully enclosed detonator well with an internal detonator locking device
- Eagle cast boosters are 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] | 24,924 |
| | [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 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

| Product Name | Weight | | Outside Diameter | | Length | | Unit Per Case | Minimum Hole Diameter | |
|--------------|--------|-----|------------------|------|--------|------|---------------|-----------------------|------|
| | [oz] | [g] | [in] | [mm] | [in] | [mm] | | [in] | [mm] |
| Eagle 150 | 5.3 | 150 | 1.6 | 41 | 4.6 | 117 | 2 | 2 | 50 |
| Eagle 225 | 8 | 225 | 1.7 | 43 | 4.8 | 123 | 64 | 2 | 50 |
| Eagle 340 | 12 | 340 | 2.1 | 53 | 4.8 | 123 | 49 | 2.5 | 63 |
| Eagle 450 | 16 | 450 | 2.3 | 58 | 4.8 | 123 | 36 | 3 | 76 |
| Eagle 500* | 18 | 510 | 2.6 | 66 | 4.5 | 115 | 30 | 4 | 101 |
| Eagle 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 boosters are used as priming blasting agents. They are NOT designed for use with detonating cord

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

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.