



PRODUCT INFORMATION

BROCHURE

1.1D

NUGGET CAST BOOSTERS



Austin Powder's **Nugget Cast Boosters** are a versatile high-density molecular explosives designed to produce high detonation pressures for optimum initiation of blasting agents. The Nugget family of cast boosters are sensitive to a 450mg PETN base charge detonator or greater.

PRODUCT OVERVIEW

TECHNICAL DESCRIPTION

Austin Powder Nugget Family Cast Boosters are manufactured with molecular explosives consisting of PETN and TNT, which are sensitive to severe impact, heat or friction. As with all explosives, Nugget Family Cast Boosters must be transported, stored and handled with care. Avoid any impact with solid surfaces or other Cast Boosters, as the potential for a premature detonation or misfire is possible.

APPLICATION RECOMMENDATIONS

- Austin Powder Nugget Family Cast Boosters are ideal for priming small diameter boreholes in underground mining applications.

PRIMING RECOMMENDATIONS

- Nugget Family Cast Boosters are able to be initiated by a minimum of a 450mg PETN base charge electric, non-electric, or electronic detonator.

ADVANTAGES

- Detonate in excess of 24,000 ft/sec (7,380 m/sec).
- Come in 500 unit (Diamond) & 1,000 unit (Gold) case counts, allowing for expanded storage capabilities over standard cast boosters.
- Highly resistant to water and oil.
- Poured in a highly visible yellow polypropylene mold.
- Highly resistant to water and oil.
- Feature excellent shelf life when correctly stored.

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
Detontion 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	Hole Diameter
	[oz]	[g]	[in]	[mm]	[in]	[mm]		
Gold Nugget	0.28	8	0.69	18	1.71	43	1,000	Ideal for priming small diameter blast holes in UG blasting applications
Diamond Nugget	0.71	20	0.69	18	3.00	76	500	

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

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.

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