



PRODUCT INFORMATION

BROCHURE

1.1D

ROCK CRUSHER CAST BOOSTERS



Austin Powder's **Rock Crusher Cast Boosters** are a high-density molecular explosives designed to produce high detonation pressures for optimum initiation of blasting agents. The Rock Crusher family of cast boosters are sensitive to a 450mg PETN base charge detonator or a 25 grain per foot or greater detonating cord.

PRODUCT OVERVIEW

TECHNICAL DESCRIPTION

Austin Powder Rock Crusher Cast Boosters are manufactured with molecular explosives consisting of PETN, RDX, HMX and TNT, all of which are sensitive to severe impact, heat or friction. As with all explosives, Rock Crusher 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 Rock Crusher Cast Boosters are ideal for secondary breakage of oversize materials.
- Use in Secondary Blasting Applications to break down oversize materials.
- Ideal for secondary blasting applications to break down oversize materials.

PRIMING RECOMMENDATIONS

- Rock Crusher Cast Boosters are able to be initiated by a minimum of a 450mg PETN base charge detonator or a 25 grain per foot or greater detonating cord.

ADVANTAGES

- Detonate in excess of 24,000 ft/sec (7,380 m/sec).
- Feature a detonation pressure greater than 200kb of pressure.
- Highly resistant to water and oil.
- Feature excellent shelf life when correctly stored.

PROPERTIES

Properties	Value	
Nominal Density [g/cm ³]	1.65	
Relative Weight Strength [ANFO=100] ⁽¹⁾	179	
Relative Bulk Strength [ANFO=0.85 g/cm ³] ⁽¹⁾	361	
Velocity of detonation ⁽²⁾	[ft/s]	24,183
	[m/s]	7,371
Detonation Pressure [kb]	222	

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
	[oz]	[g]	[in]	[mm]	[in]	[mm]	
Rock Crusher #1	16	454	5.00	127	2.50	63.5	16
Rock Crusher #2	32	900	6.25	159	3.00	76	12

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.