

# APD®-P Series

#### Cast Booster

#### DESCRIPTION

The APD®-P Series is a pentolite cast booster used for initiating blasting agents in surface mining, quarries, and construction blasting. The booster has a protective plastic shell with plastic endplates that provide extra protection from water and physical damage over conventional cardboard shells. The series ranges in size from 1/3lb (150g) to 2lb (900g).



### APD®-P SERIES TECHNICAL CHARACTERISTICS

Explosive Type	Pentolite				
Density (g/cc)	1.62 ± 3%				
Detonation Pressure (GPa)	21.6				
Detonation Velocity ft/s (m/s)	23,600 ± 3% (7,200 ± 3%)				
Energy (kJ/kg)	5,598				
Gas Volume (I/kg)	692				
Water Resistance	Excellent				
Transport and UN Numbers	UN 0042 Class 1 Division 1 1.1D EXPLOSIVES 1.1D				

## APD®-P SERIES DIMENSIONS AND CASE QUANTITIES

Product	Unit Weight	External Diame- ter	Length	Number of det -wells	Units per Case	Case Weight
ADP-P-150	⅓ lb – 150 g	1.4" – 36 mm	4 <sup>3</sup> ⁄ <sub>4</sub> " – 121 mm	1	88	29.3 lb – 13.2 kg
ADP-P-225	$\frac{1}{2}$ lb – 225 g	1.7" – 42.8 mm	4 <sup>3</sup> ⁄ <sub>4</sub> " – 121 mm	1	60	30 lb – 13.5 kg
ADP-P-450	1 lb – 450 g	2.4" – 59.7 mm	4 <sup>3</sup> ⁄ <sub>4</sub> " – 121 mm	2 <sup>‡</sup>	30	30 lb – 13.5 kg
ADP-P-675	$1\frac{1}{2}$ lb $-675$ g	†	4 <sup>3</sup> ⁄ <sub>4</sub> " – 121 mm	2	30	45 lb – 22.5 kg
ADP-P-900	2 lb – 900 g	3.3" – 82.7 mm	4 <sup>3</sup> ⁄ <sub>4</sub> " – 121 mm	2	16	32 lb – 14.4 kg

 $<sup>\</sup>dagger$  The APD-P-675 is conical in shape with the large diameter = 3 % and the small diameter = 1 %

Case Dimensions: 16.1" x 13.3" x 5.1" or 41 x 34 x 13 cm

#### APD®-P SERIES RECOMMENDED USES

The APD<sup>®</sup>-P Series boosters must be initiated with either a #8 strength (USBM) (or greater) detonator or at least 50 gr/ft (10 g/m) detonating cord.

The APD®-P Series boosters do not contain a sensitizing bottle or balloon and will not reliably detonate with 25 gr/ft (5 g/m) or less detonating cord.

### APD®-P SERIES STORAGE AND SHELF LIFE

Keep in original packaging and store in approved Class 1.1D rated magazines under cool, dry, and well-ventilated conditions.

Unused product has a 60-month shelf life.

Products described herein are potentially hazardous and must be used in accordance with applicable health and safety standards, federal and state laws, rules and other statutory or regulatory provisions. Personnel using APD®-P Series Boosters should undertake specific training in the use and handling, relevant to their application. The manufacturer cannot anticipate all of the possible applications for its products. The information is believed to be accurate, though no warranties are made, expressed or implied.

<sup>‡</sup> The APD-P-450 has a det lock in each det well