



Safety • Quality • Reliability

# Technical Data Sheet

## Solarcast-P

Cast Boosters



### Description & Application

Booster is made of a high explosive composition cast into a cardboard/plastic shell. Two longitudinal tunnels in the booster accommodate either a signal tube detonator or detonating cord. One tunnel has straight walls while the other is blocked at the top of the booster to provide a stop for the detonator. Detonating cord or signal tube are protected from damage by a recessed well at the base of the booster.

Cast Boosters have a high density and a high velocity of detonation (VOD) to maximize performance.

Cast boosters are reliably initiated by detonators or by detonating cords containing at least 5.0 g/m PETN. These boosters have been specifically designed to provide reliable initiation of pumped, augered and packaged explosives. The main intended application for Cast boosters is for use with ANFO and Bulk explosives.

### Technical Properties

Consideration should be given to the type of initiation system used (refer to the relevant Technical Data Sheets)

Shell Colour	Orange
Nominal Density (g/cc)	1.55 ± 0.05
Velocity of Detonation (Km/Sec)	7.0 ± 0.5
Water Resistance	Excellent
Oil Resistance	Excellent

### Packaging

#### Export Packaging

Grammage	No. of Shells	Net Wt. / Kg	Gross Wt. / Kg
25	600	15.00	20.00
100	120	12.00	12.80
150	60	09.00	9.80
150	80	12.00	12.80
200	54	10.80	11.60
250	42	10.50	11.80
400	30	12.00	12.80
500	20	10.00	10.80

#### Domestic Packaging

Grammage	No. of Shells	Net Wt. / Kg	Gross Wt. / Kg
100	250	25.00	27.00
150	167	25.00	27.00
250	100	25.00	27.00
400	63	25.00	27.00

Other diameter / grams combinations can be offered on request.

### Dimensions

Size	Diameter mm	Length mm
25g	20.5	104
100g	34	95
150g	40	95
150g	33	115
200g	42.5	115
250g	46	115
400g	56.5	115
500g	62	115

Note :

Other sizes can be made available on request.

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### Recommendations for Use

#### With Delay Detonators

Thread the detonator through the booster as shown in Figure 1. After assembly, the top and bottom faces may be taped for additional security against the detonator falling out especially in rough, angled blastholes. Lower the complete assembly to the desired location in the blasthole. Avoid walking on the signal tube or lead wires as this is likely to cause damage. In all applications, ensure that the primer is completely immersed in the explosive it is intended to initiate. This can be achieved by either pulling the primer up into the explosive or suspending the primer above the hole bottom during loading.

Large diameter packaged explosives should be lowered on top of primers, rather than dropped from the blasthole collar. The cord or tube downline should be kept taut during charging and stemming, to prevent damage and minimise abrasion. However, if a primer begins to float on top of a rising column of bulk explosive, temporarily slacken the downline. Once the surface of the explosive column has risen past the primer, tension can be reapplied to the downline.

Figure 1.  
Detonator placement  
in Booster

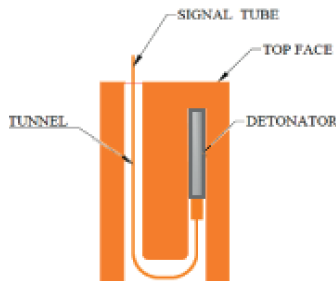


Figure 2.  
Detonating cord  
attachment



### Recommendations for Use

#### With Detonating Cord

Use Cast boosters with any detonating cord which has a PETN charge mass of 5.0 g/m or greater. Ensure the booster is securely attached to the detonating cord by passing the cord down through one tunnel. Tie the cord to form a loop, as shown in Figure 2, then lower the complete assembly to the desired location in the blasthole. Cut the detonating cord downline from its reel and adequately secure it at the blasthole collar. Charge the hole with explosives to the design level. For any subsequent boosters on the same downline, unfasten the detonating cord tail and thread the end of the cord through the straight walled tunnel. Re-secure the cord tail, at the collar, and slide or lower the booster to the desired location.

### Storage & Handling

Cast boosters have a shelf life of 5 years in good storage conditions. These boosters should be stored in a cool, dry magazine licensed for 1.1D Explosives.

### Shipping Information :

Authorised Name of Explosive	: SOLARCAST-P
Proper Shipping Name	: BOOSTERS, without detonator
Class / Div.	: 1.1D
UN No.	: 0042

### Disclaimer

Use of these products by anyone who lacks adequate training, experience & supervision may kill or injure. It is expressly understood that any technical advice furnished by SILL with reference to the use of its Products is given gratis & SILL assumes no obligation or liability for the advice given or results obtained, & all such advice being given is accepted at Customer's risk.

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Any dispute arising out of above information shall be dealt in accordance with the laws of Republic of India and subject to jurisdiction of Courts at Nagpur, India.

\*Images are just for reference and can be changed without any intimations.

**Solar Industries India Limited**

📍 Solar House, 14, Kachimet, Amravati Road, Nagpur-23, INDIA

☎ +91 712-6634555/57 📠 +91 712-2500200-201

✉ solar@solargroup.com 🌐 www.solargroup.com