



## Small & Large Diameter Cast Booster Sensitive Emulsion



### Product Description

BLASTEX is a booster sensitive, water resistant, packaged emulsion explosive designed to satisfy a majority of medium diameter explosive applications for quarry and construction blasting. It is a cost effective alternative to most detonator sensitive, water resistant, packaged emulsion explosives. BLASTEX is available in two grades with increasing energy level for each.

### Application Recommendations

- Package diameter and type affect product density. Use cartridge count to determine actual explosive charge weight.
- Ensure continuous column loading. For column lengths in excess of 6 m (20 ft) or whenever column separation is suspected, multiple priming is recommended.
- Emulsion explosives are susceptible to “dynamic shock” and may detonate at low order or fail completely when applied in very wet conditions, where explosive charges or decks are closely spaced and/or where geological conditions promote this effect. Consult your Dyno Nobel representative for alternate product recommendations when these conditions exist.
- **ALWAYS** use a cast booster as a primer for BLASTEX to ensure maximum performance.
- **ALWAYS** use a 340 g (12 oz) or larger cast booster at internal product temperatures higher than -18° C (0° F). At internal product temperatures below -18° C (0° F) and higher than -34° C (-30° F) use a 454 g (16 oz) or larger cast booster.
- **NEVER** use BLASTEX at internal product temperatures below -34° C (-30° F). At internal product temperatures below -34° C (-30° F), adequate product warm-up time must be allowed after loading into boreholes and before initiation.
- Use with detonating cord is not recommended.

## Properties

SDS  
#1063

	BLASTEX	BLASTEX PLUS
<b>Density</b> (g/cc) Avg	1.26	1.26
<b>Energy<sup>a</sup></b> (cal/g)	740	800
(cal/cc)	930	1,010
<b>Relative Weight Strength<sup>a</sup></b>	0.84	0.91
<b>Relative Bulk Strength<sup>a,b</sup></b>	1.29	1.40
<b>Velocity<sup>c</sup></b> (m/s)	5,000	4,900
(ft/s)	16,400	16,100
<b>Detonation Pressure<sup>c</sup></b> (Kbars)	79	76
<b>Gas Volume<sup>a</sup></b> (moles/kg)	44	39
<b>Fume Class</b>	IME1 & NRCAN <sup>d</sup>	IME1
<b>Shelf Life Maximum</b>	1 year (from date of production)	
<b>Maximum Water Depth</b>	45 m (150 ft)	
<b>Water Resistance</b>	Excellent	

<sup>a</sup> All Dyno Nobel Inc. energy and gas volume values are calculated using PRODET™ the computer code developed by Dyno Nobel Inc. for its exclusive use. Other computer codes may give different values.

<sup>b</sup> ANFO = 1.00 @ 0.82 g/cc

<sup>c</sup> Unconfined @ 75 mm (3 in) diameter

<sup>d</sup> Approved by Natural Resources Canada as Fume Class 1 in:

\*valeron chub 50 mm (2 in) diameter and greater

\*shot bag 125 mm (5 in) diameter and greater

### Hazardous Shipping Description

Explosive, Blasting, Type E, 1.5D, UN 0332 II





### Transportation, Storage and Handling

- BLASTEX and BLASTEX PLUS must be transported, stored, handled and used in conformity with all applicable federal, state, provincial and local laws and regulations.
- Packaged emulsions have a shelf life of one (1) year when stored at temperatures between -18° C and 38° C (0° F and 100° F). Explosive inventory should be rotated. Avoid using new materials before the old. For recommended good practices in transporting, storing, handling and using this product, see the booklet "Prevention of Accidents in the Use of Explosive Materials" packed inside each case and the Safety Library Publications of the Institute of Makers of Explosives.

### Packaging Details

- Package diameter and type affect product density. Use cartridge count to determine actual explosive charge weight.
- All weights are approximate.
- BLASTEX and BLASTEX PLUS are available in a wide variety of sizes. Custom sizes are subject to surcharge and may require longer than usual lead times.
- Check with your Dyno Nobel representative should you have any questions.

### Packaging—Chub

Diameter x Length		Blastex	Blastex Plus	Case Quantity	Case Weight		Net Explosive Weight / Chub	
mm	in				kg	lbs	kg	lbs
50 x 400	2 x 16	■	■	18	18.0	40	1.00	2.20
57 x 400	2¼ x 16	■	■	14	17.7	39	1.26	2.78
65 x 400	2½ x 16	■	■	12	18.1	40	1.51	3.33
70 x 400	2¾ x 16	■	■	9	17.3	38	1.92	4.23
75 x 400	3 x 16	■	■	8	18.2	40	2.27	5.00
89 x 400	3½ x 16	■	■	6	16.7	37	2.77	6.11

### Packaging—Shot Bag

Bag Diameter		Bag Weight		Tote Bag Quantity
mm	in	kg	lbs	
125	5	11.3	25	40

### Tote Bag Dimensions

84 x 84 x 94 cm      33 x 33 x 37 in

### Case Dimensions

44 x 35 x 20 cm      17.25 x 13.875 x 7.875 in

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