

BLASTEX® TX

Technical Information



Small Diameter Cast Booster Sensitive Emulsion



Product Description

BLASTEX TX and BLASTEX PLUS TX are booster sensitive, water resistant, packaged emulsion explosive specifically formulated to provide increased resistance to hydrostatic and/or dynamic transitory shock pressures which can result when used in wet and/or water saturated geologies. High strength microsphere density control ensures consistent explosive performance under increased hydrostatic pressures and in saturated ground conditions where the transmission of dynamic shock pressures from detonating blastholes would normally reduce the performance of standard cast booster sensitive explosives awaiting initiation in adjacent blastholes.

BLASTEX TX and BLASTEX PLUS TX are cost effective alternatives to most detonator sensitive, water resistant, packaged emulsion explosives and is available in easy-to-load Valeron plastic chub cartridges. BLASTEX TX and BLASTEX PLUS TX are available in two grades with increasing energy levels 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.
- **ALWAYS** use a cast booster as a primer for BLASTEX TX and BLASTEX PLUS TX to ensure maximum performance.
- **ALWAYS** use a 340 g (12 oz) or larger cast booster with BLASTEX TX and BLASTEX PLUS TX 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.

Properties

MSDS
#1063

	BLASTEX TX	BLASTEX PLUS TX
Density (g/cc) Avg	1.26	1.26
Energy^a (cal/g)	722	808
(cal/cc)	910	1010
Relative Weight Strength^a	0.82	.92
Relative Bulk Strength^{a,b}	1.26	1.40
Velocity^c (m/s)	4,700	4,600
(ft/s)	15,400	15,100
Detonation Pressure^c (Kbars)	71	67
Gas Volume^a (moles/kg)	42.8	38
Fume Class	IME1	
Shelf Life Maximum	1 year (from date of production)	
Maximum Water Depth	45 m (150 ft)	
Water Resistance	Excellent	

^a 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.

^b ANFO = 1.00 @ 0.82 g/cc

^c Unconfined @ 75 mm (3 in) diameter

Hazardous Shipping Description

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



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- **NEVER** use BLASTEX TX or BLASTEX PLUS TX 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.

Transportation, Storage and Handling

- BLASTEX TX or BLASTEX PLUS TX 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

Packaging

Diameter x Length		Case Quantity	Case Weight		Net Explosive Weight	
mm	in		kg	lbs	kg	lbs
50 x 400	2 x 16	18	19.0	42	1.00	2.20
57 x 400	2 1/4 x 16	14	18.6	41	1.26	2.78
65 x 400	2 1/2 x 16	12	19.0	42	1.51	3.33
70 x 400	2 3/4 x 16	9	18.0	40	1.92	4.23
75 x 400	3 x 16	8	19.0	42	2.27	5.00
89 x 400	3 1/2 x 16	6	17.7	39	2.77	6.11

- Package diameter and type affect product density. Use cartridge count to determine actual explosive charge weight. All weights are approximate.
- BLASTEX TX or BLASTEX PLUS TX 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.

Case Dimensions

44 x 35 x 20 cm 17.25 x 13.875 x 7.7514

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