TECHNICAL DATA SHEET

PACKAGED EXPLOSIVES

DX1004 (EMULSION PRIMER)

Properties

SDS #1030

Density (g/cc)	1.16
Energy[a] (cal/g)	1,000
Velocity[b] (m/sec)	5,300
(ft/sec)	17,400
Detonation Pressure[b] (kbar)	95
Gas Volume[a] (moles/kg)	35.6
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] Confined 75 mm diameter

Packaging - Chub

Diameter x Length		Case Quantity	Net Explosive Weight*		Net Explosive Weight	
mm	in		kg	lbs	kg	lbs
75 x 200	3 x 8	16	16.7	37	1.04	2.29

Note: All weights are Approximate

** Add two pounds for Gross Case Weight

Hazardous Shipping Description

Explosive, Blasting, Type E, 1.1D, UN 0241

Hazardous Shipping Description

Explosive, Blasting, Type B, 1.5D, UN 0331, OR
Ammonium Nitrate, Fuel Oil Mixture, 1.5D, NA 0331

PRODUCT DESCRIPTION

DX1004 is an emulsion explosive specifically designed for use as an alternative primer. It is designed to handle a broad range of temperature environments and has excellent water resistance. DX1004 has excellent sensitivity, even at cold temperatures, a moderately high rate of detonation and it does not contain perchlorates or molecular explosive ingredients.

APPLICATION RECOMMENDATIONS

- DX1004 is an excellent primer for Dynomix (ANFO) and Dynomix WR (WR ANFO). DX1004 is also recommended for use as a primer for Heavy ANFO products, Emulsion/ANFO blends and sensitized emulsion products.
- Minimum recommended diameter of DX1004 for use as a primer is 3 inches. Consult with your Dyno Nobel representative if a smaller diameter primer is desired for a specific application.
- Recommended temperature range is -20°C to 65°C (0°F to 150°F). For temperatures below -20°C (0°F), a sleep (warm-up) time of at least 2 hours is recommended before detonation. Alternatively, a 10 g Stinger can be used to more reliably initiate the DX1004 primer down to -40°C (-40°F).
- ALWAYS half-hitch or tape the leg wires or use other appropriate measures to secure the detonator to the charge.

TRANSPORTATION. STORAGE AND HANDLING

- DX1004 must be transported, stored, handled and used in conformity with all applicable federal, state, provincial and local laws and regulations.
- Under typical storage and transport temperatures, DX1004 has a minimum shelf-life of 12 months from date of manufacture. Under ideal storage conditions (-20°C to +20°C), DX1004 will maintain critical performance properties for many years. Explosive inventory should always be rotated by using the oldest materials first. Consult with your Dyno Nobel representative if you need assistance in verifying quality of old product. 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.

ADDITIONAL INFORMATION – Visit dynonobel.com for Brochures and Case Studies related to this product.

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