

DYNOMIX™ WR

Technical
Information



Booster Sensitive Explosive



Product Description

DYNOMIX WR is a premixed, free-flowing, limited water resistant explosive that uses a special mixture of ingredients to coat surface of the ANFO prills. This coating helps block water penetration and enables detonation in damp borehole conditions. In certain situations, DYNOMIX WR can fill the gap between regular ANFO and packaged explosive products and is available in various sizes and types of bags.

Application Recommendations

- To produce consistently good results, wet blastholes must be dewatered. After dewatering, check the borehole to ensure there is no re-entering or residual water. As soon as the borehole is confirmed dry, immediately prime, load and stem
- **NEVER** pour DYNOMIX WR into boreholes where standing water is present
- DYNOMIX WR is suitable for use in ground with a temperature range of 0°C to 55°C (32°F to 131°F). For applications in ground with temperatures outside this range contact your Dyno Nobel representative
- DYNOMIX WR is not designed for use in ground conditions where reactive sulphides are present
- Minimum recommended diameter is 75 mm (3 in) when poured
- **ALWAYS** use an adequately sized cast booster or packaged explosive with a high detonation pressure for priming

Properties

SDS
#1009

Density (g/cc) Avg	0.87
Energy ^a (cal/g)	880
(cal/cc)	748
Relative Weight Strength ^{a,b}	1.00
Relative Bulk Strength ^{a,b}	1.04
Velocity ^c (m/sec)	3,460
(ft/sec)	11,350
Detonation Pressure ^c (Kbars)	25
Gas Volume ^a (moles/kg)	43
Water Resistance	Limited
Fume Class	IME1

^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 Confined @ 75 mm (3 in) diameter

Hazardous Shipping Description

Explosive, Blasting, Type B, 1.5D, UN 0331 II



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Application Recommendations (continued)

- **ALWAYS** double prime DYNOMIX WR. One primer should be positioned 0.3 m (12 in) off the bottom of the borehole and the second primer positioned further up the DYNOMIX WR column
- **ALWAYS** ensure that the second primer is at least 0.3 m (12 in) above the borehole depth where the water-level was before dewatering. Additional primers are **ALWAYS** recommended whenever separation or blockages in the poured DYNOMIX WR column are suspected to have occurred during loading
- Whenever standing water remains in a borehole after dewatering, a water-resistant packaged explosive should be loaded after priming until its column rises out of the water before loading DYNOMIX WR. Then, and only then, should DYNOMIX WR be loaded. At least one additional primer should be located in the DYNOMIX WR column in this situation
- **NEVER** leave DYNOMIX WR in loaded boreholes overnight

Transportation, Storage and Handling

- DYNOMIX WR has a shelf life of 3 months from date of manufacture when stored at temperatures between -17° C and 32° C (0° F and 90° F).
- Inventory should **ALWAYS** be rotated by using the oldest materials first.
- For recommended good practices in transporting, storing, handling and using this product, see the Safety Library Publications of the Institute of Makers of Explosives.
- DYNOMIX WR must be transported, stored, handled and used in conformity with all applicable federal, state, provincial and local laws and regulations.

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