



PrimeX HEAVY ANFO Blend

Description

PrimeX 3000 Heavy ANFO blends are bulk explosives, designed to be augered from a bulk delivery truck. The PrimeX 3000 emulsion has been developed for dry or dewatered blasting conditions in small to medium diameter open cut mining. PrimeX 3000 emulsion can be used in Heavy ANFO Blends with up to 50% emulsion by weight for use in dewatered holes.

Advantages

PrimeX 3000 Heavy ANFO blends have densities ranging from 0.86g/cc to 1.23g/cc providing control of bulk strength and explosive distribution as ground conditions vary. This permits blasting parameters to be optimised. Complete coupling in the blasthole results in improved blast performance over bagged products. This can lead to improved fragmentation or permit blast hole pattern expansion.

Notes

1. In hole gassed density is dependant on hole depth.
2. All Prime Explosives energy values are calculated using a proprietary Dyno Nobel thermodynamic code – Prodet. Other programs may give different values.
3. Water Resistance determined using laboratory testing methods.
4. For Non-reactive ground.
5. RWS and RBS determined using a density of 0.82g/cc and an energy of 3.7MJ/kg for ANFO

Properties

Property	PrimeX 3010	PrimeX 3020	PrimeX 3030	PrimeX 3040	PrimeX 3050
Density (g/cc) ¹	0.86	0.93	1.05	1.23	1.34 - 1.36
Rec. Min. Diam (mm)	89mm	89mm	102mm	127mm	125-150mm
Energy (MJ/kg) ²	3.6	3.5	3.4	3.3	3.2
Water Resistance ³	Poor	Poor	Poor	Average	Average
Rec. Sleep Time ⁴	14 days	14 days	14 days	14 days	14 days
RWS ⁵	0.97	0.95	0.92	0.90	0.86
RBS ⁵	1.02	1.07	1.18	1.34	1.42



PrimeX HEAVY ANFO Blend

Recommendations

Priming Requirements – PrimeX 3000 emulsion blends are formulated to be booster sensitive and require a minimum HDP 150 (150gram) primer. Smaller booster types may reduce the performance of the explosive. Additional boosters should be used when the column height exceeds 10 to 15 metres, or where there is risk of column disruption. Detonating cord downlines are not recommended.

Shelf Life – PrimeX 3000 emulsion matrix has a minimum shelf life of three (3) months, when transported and stored under ideal conditions.

Sleep Time – For applications where unusual or specific conditions exist please consult your Prime Explosives representative.

Reactive Ground Conditions – PrimeX 3000 emulsion blends are not designed for use in reactive (pyritic) ground conditions. For applications in reactive ground conditions please consult your local Prime Explosives representative.

Ground Temperature – PrimeX 3000 emulsion blends are suitable for use in ground with a temperature of 0°C to a maximum of 55°C.

Dangerous Goods Classification

Product Name:	PrimeX 3000 Heavy ANFO Blends
Correct Shipping Name:	Explosive, Blasting, Type E
UN Number:	0241
DG Class:	1.1D

Safe handling, transportation & storage

First Aid – Detailed first aid information regarding this product is contained on the relevant Material Safety Data Sheet.

Safety – All explosives are classified as dangerous goods and can cause personal injury and damage to property if used incorrectly.

Transportation and Storage – All explosives must be handled, transported and stored in accordance with all relevant regulations. Stock should be rotated such that older product is used first.

The information and suggestions contained in this document concern explosive products that should only be dealt with by persons having the appropriate technical skills, training and licence. The results obtained from the use of such products depend to a large degree on the conditions under which the products are stored, transported and used.

While Prime Explosives makes every effort to ensure the details contained in the document are as accurate as possible, the conditions under which the products are used are not within its control. Each user is responsible for being aware of the details in the document and the product applications in the specific content of the intended use. If technical advice is required in the specific application of the products then you should contact Prime Explosives for assistance.

Prime Explosives makes no warranties in relation to the products it sells other than those implied by law. Except to the extent determined by law, Prime Explosives bears no risk, responsibility or liability arising from the use of the products and the information in this document by the buyer or use of the products.

Prime Blasting Services Ltd T/A Prime Explosives
POBOX 3005, Greerton. Tauranga 3142

P: +64 7 577 1275 F: +64 7 5771277 E: prime@primeexplosives.co.nz W: www.primeexplosives.co.nz