

ANFO

Technical Data Sheet



Description

Ammonium Nitrate Fuel Oil (ANFO) is a free-flowing blend of ammonium nitrate prill and fuel oil, for use as a bulk explosive in mining and quarrying applications. The product is a 94:6 (wt%) blend ensuring appropriate oxygen balance which delivers optimal energy for all ground conditions. ANFO is suitable for use in dry, small to large diameter blastholes when there is no probability of a rain event prior to initiation.

The product is delivered in-hole via auger at high productivity rates of up to 750kg/min. The ingredients and density of the product unlock a high level of consistency in-hole ensuring reliable blast outcomes. Due to the high ammonium nitrate (AN) content, this product is great for use in ground requiring a high degree of fragmentation and movement (heave energy).

Using ANFO in damp, dewatered or wet ground conditions may contribute to post blast fume generation and non-optimal blasting outcomes. ANFO is not suitable for areas where wet, hot or reactive sulphides are present.

Specifications

Delivery Method	Augured
Density Av. In Hole (g/cc)	0.8
Min hole diameter (mm)	76
Max Charge Length (m)	75
Blasthole Condition¹	Dry
Min Booster Size (gm)²	150 (see priming notes)
Typical VOD (m/s)³	2,500 - 4,800
RWS	100
RBS	100

¹No moisture content. ²Recommend using 250g boosters as secondary primers with a 340g as the primary primer, see priming note. ³Velocity of Detonation.

Priming

Platinum recommends priming every 15 metres of column charge. Additional boosters should be used where there is a risk of column dislocation. Platinum recommends double priming all holes as a minimum.

Blasthole Diameter (mm)	Recommended Minimum Booster Size (g)
Less than or equal (<=) to 102	150
Greater than (>) 102	250 ²

Product Sleep-time

Product sleep-time is influenced by several factors including, blasthole conditions, diameter, depth and method of initiation. A maximum of 21 days is recommended under ideal conditions. If non-ideal conditions exist, contact Platinum to determine recommended sleep-time for the application.

Packaging, Storage & Transport

ANFO is available only as a bulk explosive and is delivered through specialised explosive delivery vehicles. This product is classified as an Explosive and must be stored and transported in accordance with the relevant State/Territory and Commonwealth regulations.

Safety & Handling

ANFO is reasonably insensitive to accidental initiation by modes of shock, friction, or impact under normal use. When under confinement, the product may detonate from excessive heating or excessive impact.

ANFO is an Ammonium Nitrate based product and may react with sulphides present in the blasting environment. The product must not be used in elevated hole temperatures more than 55 degrees Celsius. Please refer to the relevant Safety Data Sheet (SDS) for information regarding the safe handling of this product.

Dangerous Good Classification

Product Name: ANFO
Correct Shipping Name: Explosive, Blasting, Type B
UN Number: 0082
DG Class: 1.1D



Manufacturer

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