



ANFO

Ammonium
Nitrate - Fuel Oil



Anfo

Ammonium Nitrate-Fuel Oil

PERFORMANCE

ANFO is an oxygen balanced mixture of prilled porous Ammonium Nitrate and fuel oil, (at a ratio of 94.3% AN, 5.7% FO) manufactured in Orica-Nitro facilities with total process control. It is not water resistant.

HIGH SAFETY FEATURES

ANFO, in comparison with other explosives nitroglycerine is more resistant to initiation by both friction and impact and using, it does not cause headache or other health problems.

INITIATION AND CHARGING

ANFO may be initiated by cap sensitive explosives, such as Powergel Magnum, Magnum 365 or dynamite. For efficient initiation, priming explosive should have a diameter, closest to the borehole diameter.

Furthermore, in order to obtain maximum blasting performance the length of the primer should be 5 times more than its diameter.

PRODUCT RANGE

ANFO is packed 25kg's in double layer bags in the Orica-Nitro Co. Factory
For special applications, other size ranges can be produced.

STORAGE

It must be stored at a dry, well ventilated magazines, in accordance with the regulations.

UN NO.

Un Classification 1.1.D,U.N. No 0241
Explosive, Blasting Type E.

THERMODYNAMIC AND TECHNICAL PROPERTIES

The detonation velocity depends on cartridge diameter and cartridge confinement. Ideal detonation velocity is calculated by "JC3" thermodynamic code as a function of chemical composition.

Ideal Detonation Velocity	4850 m/s
Ideal Detonation Pressure	48960 atm
Ideal Detonation Temperature	2946° K
Velocity of Detonation at. 125 mm Cartridge	4000-4200 m/s
Heat of Explosion	3,89 Mj/Kg
Density	0,78-0,80 gr/cm ³
Water Resistance	Poor



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