



ANFOexal



VAGEXCO S.H.P.K.
EXPLOSIVES ALBANIA

DESCRIPTION

ANFO EXAL is a balanced mixture of prilled porous ammonium nitrate and fuel oil (at ratio 94,3% AN, 5,7 FO). The oxygen content is capable of burning in case of explosion. The product is manufactured in VAGEXCO Sh.p.k facilities, in an automated process that ensures homogeneous mixing and fully controlled quality.

IMPLEMENTATION

Exal, is intended to use as the primary explosive in all blasting in mines, quarries and generally in underground and surface blasting.
Due to its poor water resistance, its use is only in dry soil.

HIGH SAFETY FEATURES

ANFO, in comparison with other nitroglycerine's explosive is more resistant to initiation by both friction and impact. Use does not cause headache or other health problems.

RECCOMENDATIONS FOR THE USE OF THE PRODUCT

DEPTH OF HOLES

Exal can be used in all hole depths.

INITIATION AND CHARGING

Exal, does not initiate with ignition, but with other stronger explosives which are less resistant to primer detonator.

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.

THERMODYNAMIC AND TECHNICAL PROPERTIES

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

TABLE OF TECHNICAL CHARACTERISTICS

Ideal Detonation Velocity	4.800,00 ± 100,00 m/s
Density	0,80 gr/cm ³
Relative weight power	100%
Explosive power (Trauzl)	316,00 cm ³
Impact Resistance	>2 Kp m
Friction Resistance	>36 Kp
Volume of explosive gases	970,00 lt/Kg
Energy of explosive gases	926,00 Kcal/Kg
Ideal Detonating Temperature	2622 °C
Water resistance	Poor

PRODUCT RANGE

EXAL is packed in 25kg's double layer bags in VAGEXCO Sh.p.k. The bags are certified for their suitability in transportation of dangerous goods.

STORAGE

The product must be stored at a cool, dry and well ventilated storage area in accordance with national laws and regulations.

CLASSIFICATION OF EXPLOSIVES

Un Classification 1.1D, UN No. 0082 Explosive, Blasting Type B

Brand name	EXAL
Technical name	Explosive blasting, Type B
UN Number	0082
Risk/compatibility	1.1 D



VANTOLAS S.A.

GRAMMOU AVE 97
454 45 IOANNINA - GREECE
Tel : +30 2651026336
Fax : +30 2651073863
Email: info@vantolas.gr
Web: http://www.vantolas.gr