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**Dahana**



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DANFO

## DAHANA ANFO

Non-Cap Sensitive free flowing explosives based on ammonium nitrate and fuel oil

### DESKRIPSI

Bahan peledak Non-Cap Sensitive berbasis ammonium nitrate dan fuel oil

### KEAMANAN

DANFO adalah blasting agent yang tidak peka terhadap inisiasi detonator nomor 8, sangat cocok untuk dipakai pada lubang tembak yang relatif kering pada operasi blasting open pits dan underground.

DANFO memiliki sensitifitas sangat rendah terhadap pengaruh mekanik. Kriteria ketidaksensitifan terhadap pengaruh mekanik ini merupakan fitur yang sangat penting dari produk ini.

Apabila sisa DANFO akan dimusnahkan dengan cara pembakaran, metoda pemusnahan yang tepat dapat dikonsultasikan dengan Teknisi/Ahli Bahan Peledak DAHANA atau dari Instansi setempat yang ditunjuk menurut Undang-undang.

### PENGGUNAAN

DANFO cocok untuk pemakaian pada lubang tembak kering sampai proses inisiasi dilaksanakan.

DANFO dirancang untuk menghasilkan energi yang besar dan digunakan sebagai column charges pada operasi blasting open pits dan underground di pertambangan, quarry dan pekerjaan blasting lainnya dengan karakteristik lubang tembak yang kering. DANFO merupakan blasting agent yang menghasilkan energi maksimum dan efisiensi ketika diinisiasi dengan HDP booster Primer lain yang direkomendasikan untuk menginisiasi DANFO adalah jenis Cap Sensitive Emulsion Explosives seperti serial produk Dayagel atau Nitrogliserin based Explosives.

DANFO dapat dimasukkan dalam lubang tembak yang relatif kering dengan menggunakan pneumatic loader atau dapat dituangkan secara langsung dari kemasan.

### DESCRIPTION

*Non-Cap Sensitive free flowing explosives based on ammonium nitrate and fuel oil*

### SAFETY

*DANFO is a blasting agent and not sensitive to initiation by a detonator no 8, suitable for charging in the relatively dry blast holes of open pits and underground blasting.*

*While DANFO has a very low mechanical impact sensitivity. This impact insensitivity criterion is a very important safety feature.*

*If remnant of DANFO are to be destroyed by burning, advice on the correct method should be sought from DAHANA's Explosives Technical Specialists or from the local explosives statutory authority.*

### APPLICATION

*DANFO is suitable for charging in the dry blast holes and will remain dry until initiation.*

*Designed to deliver high energy and used as a column charge in open pits and underground mining, quarrying and general blasting work where water is not present. DANFO is blasting agent and will deliver maximum energy and efficiency when initiated by a HDP booster.*

*The recommended priming methods for DANFO are either a cap sensitive Emulsion Explosives such as Dayagel Series or Nitroglycerine based explosives.*

*DANFO can be loaded in relatively dry drill holes using a pneumatic loader or poured directly from the bag.*

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## REKOMENDASI PENGGUNAAN

### Peledakan Lubang Kering

DANFO memiliki sifat tahan air yang sangat lemah. Air/Cairan dalam lubang basah harus di pompa keluar dan dikeringkan. Pilihan lainnya adalah memakai Heavy ANFO dengan merek DAHANA DABEX 55

Heavy ANFO terdiri dari berbagai campuran DABEX 100 dan DANFO, yang memiliki ketahanan terhadap air atau ketika penambah kekuatan diperlukan.

### Priming

DANFO di desain sebagai bahan peledak non-cap sensitive dan akan menghantarkan energi maksimum dan efisiensi saat diinisiasi dengan booster.

Metode priming yang disarankan untuk DANFO adalah "a cap sensitive Emulsion Explosive" seperti Seri Dayagel atau bahan peledak dasar Nitroglycerine

### Pengisian

DANFO dimasukkan dalam lubang tembak dengan menggunakan loader pneumatik atau dituangkan langsung dari kemasan

### Kemasan

Kemasan DANFO menggunakan label putih dan hitam untuk membedakan dengan jelas produk ini. Kemasan standar DANFO berbahan PE liner dengan woven PP untuk kemasan luar dan tersedia dalam ukuran 25 kg

### Penyimpanan dan Penanganan

Seperti bahan peledak higroskopis lainnya, kualitas produk akan tergantung pada kondisi kemasan. Apabila kemasan DANFO rusak, isi produk dipengaruhi oleh tingkat kerusakan kemasan dan oleh sifat iklim atmosfer terutama tingkat kelembaban.

### Hindari dari gesekan dan tumbukan

Simpan dan jauhkan dari sumber panas atau pengapian dan bahan kimia lainnya.

## RECOMMENDATION FOR USE

### Dry Blast Hole

Danfo has very poor water resistance. Wet holes must be pumped out, blown dry. Another option is use Heavy ANFO with Dahana brand DABEX 55.

Heavy ANFO is comprising various blends of DABEX 100 and DANFO, used where water resistant or extra power charging is required.

### Priming

DANFO has been designed as a non-cap sensitive explosives and will deliver maximum energy and efficiency when initiated by a high explosives solid booster.

The recommended priming methods for DANFO are either a cap-sensitive Emulsion Explosives such as Dayagel Series or Nitroglycerine based explosives.

### Charging

DANFO can be loaded to blast holes using a pneumatic loader or poured directly from the bag

### Packaging

The DANFO packaging bag are colour highlighted in white and black label to clearly distinguish this product. Standard packaging are PE liner with woven PP outer bag and available in 25 kgs weight.

### Storage and Handling

As with other hygroscopic explosives, the shelf life will be dependent on packaging condition. If the DANFO package is damaged, the shelf life is influenced by the extent of damage to the packaging and by the nature of atmospheric climate especially the humidity level.

**Do not subject the product to impact and friction.**

Store away from sources of heat or ignition and other chemical.

## TECHNICAL PROPERTIES

Classification	Blasting Agent
Type Of Explosives	Non Cap sensitive
Consistency	Free Flowing Prills
Priming	Cast Booster
	Cartridges Emulsions Explosives
	NG Based Explosives / Dynamite
	or Equivalent
Water Resistance	Poor
Bulk Density (gr/cc)	0.8 – 0.84
Critical Diameter Borehole (Inch)	1.5
VOD (m/s) in 25" diameter confined Borehole	3000 - 3300
Relative Weight Strength to Blasting Gelatin (%)	55
Color	Rose
Weight in Bags Net (kg)	25
Storage Life (Month)	6

Fume Characteristic

DABEX Is Oxygen balanced and is suitable for underground use



## DISCLAIMER !

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