

TECHNICAL

**HIGH WATER
RESISTANCE**

**LOW NOXIOUS FUME
EMISSION**

**EXEMPLARY
PERFORMANCE**

**PROFESSIONALS &
EXPERTS**

SMS BULK AND PACKAGED EMULSIONS

VARIABLE DENSITY HIGH ENERGY BULK AND PACKAGED EMULSION

SMS's EMX bulk and NOVA packaged series are designed for underground and open pit mining applications and have high water resistance keeping its quality and performance in water up to 2 weeks.

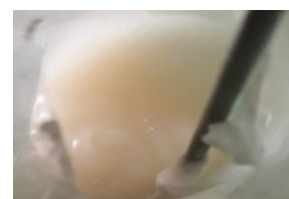
As size of micro droplets of the emulsion is kept at the proper level by SMS's own formula and laboratory tests, EMX bulk and NOVA packaged emulsions release less toxic fumes and have superior performance in rock fragmentation due to low water content. All the products of SMS are manufactured using an ISO9001 accredited quality process.

Depending on our customer's requirement, emulsion density can be varied between 1.0 g/cm³ to 1.3 g/cm³ by chemically gassing. Emulsion and ANFO contents of EMX and NOVA products also can be changed upon request.

Packaged NOVA emulsion explosive series diameters are available between 25mm and 220mm.

EMX AND NOVA 100

- 100% EMULSION PRODUCT
- EXCELLENT WATER RESISTANCE
- SUITABLE FOR BLASTING VERY HARD ROCK TYPES



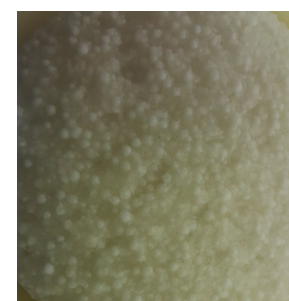
EMX 70 AND NOVA 70

- 70% EMULSION 30% ANFO
- EXCELLENT WATER RESISTANCE
- SUITABLE FOR BLASTING MEDIUM AND HARD ROCK TYPES.



EMX 60 AND NOVA 60

- 60% EMULSION 40% ANFO
- MODERATE WATER RESISTANCE (EXCELLENT FOR NOVA 60)
- SUITABLE FOR BLASTING SOFT AND MEDIUM ROCK TYPES



CONTACT

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ADDRESS

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TECHNICAL SPECIFICATIONS

<i>Product</i>	<i>EMX 100 & NOVA 100</i>	<i>EMX 70 & NOVA 70</i>	<i>EMX 60 & NOVA 60</i>
<i>Density (g/cm³)</i>	1.0-1.3	1.0-1.3	1.0-1.3
<i>Velocity of Detonation (m/s)</i>	3800-6050	3800-6150	3850-6340
<i>Energy (kJ/kg)</i>	3025	3072	3200
<i>Brisance (mm)</i>	36	36	36
<i>Detonation Temperature (K)</i>	2240	2326	2567
<i>Gas Volume (l/kg)</i>	965	982	965
<i>Critical Diameter (mm)</i>	80	80	80

INITIATION

Minimum of 300g cast booster is required (bulk).

Double priming is necessary when the bulk emulsion charge depth exceeds 8m.

NOVA series are initiated by detonators or booster depending on diameter of product. Contacting SMS representative before use is recommended.

TRANSPORTATION

UN classification: Explosive Type E

UN Number: 0241

International Maritime Dangerous Goods: 1.1D

STORAGE

Should be stored in appropriate isolated tanks (bulk) away from other chemicals and direct sunlight.

Storage temperature above 0C, ventilation, grounding is required.

When stored properly, EMX and NOVA 100 has 6 months shelf life, and EMX and NOVA 70 & 60 series have 3 months shelf life.

USEFUL FEATURES

Ideal for using in wet holes.

Relatively safer than Nitroglycerin based explosives due to its low shock, friction, heat sensitivity.

Less noxious fume than TNT based explosives.



TECHNICAL DATA SHEET

BULK ANFO

HIGH QUALITY BULK ANFO

SMS's bulk ANFO explosive is a mixture of ammonium nitrate prills and fuel oil and suitable for dry hole blasting operations.

All the products of SMS are manufactured using an ISO9001 accredited quality process. To ensure the high quality and performance, ammonium nitrate samples are regularly taken for the lab tests, such as porosity and absorption, as well as fuel oil.

HIGH QUALITY

HIGH PERFORMANCE

COST EFFECTIVE

PROFESSIONALS & EXPERTS

TECHNICAL SPECIFICATIONS

PRODUCT	ANFO
VELOCITY OF DETONATION (M/S)	2300-4500
DENSITY (G/CC)	0.87
OXYGEN BALANCE	+0.19
CRITICAL DIAMETER (MM)	120
FUEL OIL CONTENT (%WEIGHT)	6
AUGER RATE (KG/S)	200-300
BRISANCE (MM)	30

INITIATION

400g cast booster is required
Double priming is necessary when the bulk ANFO charge depth exceeds 8m

TRANSPORTATION

UN classification: Explosive Type E
UN Number: 0241
International Maritime Dangerous Goods: 1.1D

STORAGE

Storage temperature above 0C, ventilation, grounding, and keeping away from other chemicals and direct sunlight is required
When stored properly, ANFO explosive has 2 months shelf life.

FEATURES

Ideal for using in dry holes
Relatively safer than Nitroglycerin based explosives due to its low shock, friction, heat sensitivity
Less noxious fume than TNT based explosives
Cost-effective

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