



ЕНС

DESCRIPTION:

The EHC Low-Density Ammonium Nitrate (LDAN) prill is specially produced for the preparation of ANFO and ANFO emulsions. It is the most cost-effective bulk explosive for surface and underground dry blasting applications. Due to its high porosity and low-density specification, the EHC LDAN ensures high fuel oil absorption increasing ANFO's blasting performance.

EHC LDAN can be used not only for mining application but also in civil works' activities.

PACKAGING:

EHC LDAN is available in 25 kg Polyethylene bags. It is also supplied in 1,000 kg, 1,100 kg, and 1,200 kg Polypropylene FIBC protected with an inner Polyethylene liner.

STORAGE STABILITY:

The EHC LDAN excellent packing together with its high crushing strength and low moisture support in maintaining its quality even for long periods in prescribed storage conditions.

PROPERTIES	LIMITS	UNIT
Purity	≥ 99.0	wt. %
Total Nitrogen	≥ 34.5	wt. %
pH (10% soln.)	4-6	
Moisture	≤ 0.15	wt. %
Bulk Density	720 ±20	Kg/m ³
Fuel Oil Retention	≥ 10	wt. %
Particle Undersize (<1 mm)	≤ 5	wt. %
Typical Particle size (1-2mm)	≥ 80	wt. %
Particle Oversize (>2mm)	≤ 15	wt. %
Organic Carbon	< 0.2	wt. %
Crushing Strength	≥ 0.3	kg-f

Water Insoluble	≤ 0.5
-----------------	------------

DESCRIPTION:

NITRIC ACID is produced by oxidizing Anhydrous Ammonia over a Platinum catalyst at high temperatures. The resultant nitric oxide and nitrogen dioxide gases, or NO_x, are cooled and absorbed in demineralized water. Apart from Hydrogen and Nitrate ions, NITRIC ACID would not contain any ions unless they were present in the water source used for absorbing the Acid Gas or present in the compressed Air used in the process. The product Acid is clear and colorless to slightly yellow. The common yellow discoloration in NITRIC ACID is directly proportional to the level of oxides of Nitrogen dissolved in the solution. This is HNO₂ or Nitrous Acid. It can be minimized using various techniques from process Air bleaching to inert chemical addition. The Acid is miscible with water in all proportions accompanied with a rise in temperature.

APPLICATION RECOMMENDATIONS:

- For Nitration of organics in production of plastics, surface coatings, dyes, pesticides and explosives.
- In the manufacturing of Ammonium Nitrate
- In the manufacturing of Adipic Acid, Isocyanates, Nitrotoluene, Nitrobenzenes and Nitrocellulose
- To pickle Stainless Steel
- To produce Nitrate salts
- In water treatment for fertilizer irrigation water

REMARKS

- Safety Requirements: the work with Nitric Acid Solution requires compliance of individual protective measures in specialized clothing.
- NFPA: 704
- Transportation: In specialized Stainless-Steel trucks
- Storage: In Covered Stainless steel tank at atmospheric pressure

PARAMETER	SPECIFICATION
Appearance	Colorless to yellow liquid
Nitric Acid, wt%	60
Melting Point, °C	-22 (60%)
Boiling Point, °C	120.4 (60%)



EHC

Density at 20°C, Kg/m ³	1367 (60%)
Chlorides, ppm	10 max
Iron, ppm	10, max
Sulphates, ppm	5, max
HNO ₂ , ppm	10, max