



Carseland Works

AN

Ammonium Nitrate

Uses

- to make: AMEX II,
LOMEX II
emulsion explosives
slurry explosives
NCN Blasting Agents

Benefits

- low cost
- bulk shipments
- bagged shipments
- shipped as an oxidizer - 5.1



ALWAYS
lock up explosive
materials and
keep them
from children

AN

Ammonium Nitrate

Properties

Properties	Typical
Bulk Density (g/cc)	Min 0.75
Oil Absorption (wt %)	Min 5.7
Prill Size (mm)	40% > 2 56% 2 - 1 3% 1 - 0.5 1% < 0.5
Total Nitrogen (wt %)	Min 34
Moisture (wt %)	< 0.25
Coating - Organic (wt %)	0.06 - 0.08
Acidity, pH (10% sol'n)	5.0-6.0

* Ammonium Nitrate is hygroscopic. Any contact with moisture or humid air can weaken and breakdown the prill.

Packaging

Ammonium Nitrate prills are available in 25 kg two-ply polyethylene valve bags, or 25 kg polypropylene bags. It is also available in Flexible Intermediate Bulk Containers with 400 kg to 1000 kg capacities.

Loading

When pneumatically loading AN into silos or AN trucks, the air pressure should be 5 psig or 35 kPa per g. Maximum air pressure should not exceed 8 psig or 55 kPa per g

Storage

AN should be stored in dry silos or storage sheds. Do not store in humid or wet conditions.

Crystal phases of Ammonium Nitrate change at 32°C and -18°C. In conjunction with these phase changes, there is a volume change of 3.6% and 2.8% respectively. Temperature cycling through transition points can break down the prill structure of Ammonium Nitrate.

Hazards

- supports combustion
- decomposes rapidly if heated while confined
- produces toxic fumes when burned

See MSDS sheet for detailed information

Hazardous Materials Shipping Description

AN prills can be delivered in bulk hopper cars, bulk trucks or in 25 kg to 1000 kg bags.

Suitably bulk trucks range from pneumatic trucks to bottom dump trucks. AN can be shipped overseas in bag sizes range from 25 kg to 1000 kg.

For shipments of bulk Ammonium Nitrate in Canada and the USA: Ammonium Nitrate Fertilizers, Class 5.1, UN 1942.

For shipments in bags: Ammonium Nitrate, Class 5.1, UN 1942.

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