Calcium ammonium nitrate (CAN)

Normative document: TU UA 24.1-05607824-041-2004

Application

Calcium ammonium nitrate (CAN) is used in agriculture as fertilizer.

Storage and transportation

Calcium ammonium nitrate can be transported by all means of transportation in accordance with cargo carriage regulations applicable to a particular transportation mode. It is allowed to transport CAN by railway in bulk in covered hopper cars.

Packaged CAN is stored in sheltered, dry, vented space, which protects product from moistening. At least 1 meter of free space between roof and bags must be secured or vented shed should be used. CAN must be protected from direct sunlight and rapid temperature changes.

It is allowed to store CAN in bulk in dry, ventilated and cold warehouses (with max. temperature 32 °C)

Guaranteed storage life:

9 months for bulk, 24 months for retail sales from the date of manufacture.

No expiration date as fertilizer.

Specifications

	Value	
Description	**Grade A**	**Grade B**
Appearance	Light gray to brownish-red grains	
Total nitrogen (N), %	25–28	20–24
including nitrate form (NO_3), %	12–14	10–12
Calcium oxide (CaO), %	4–16	9–22
Magnesium oxide (MgO), max, %	6,0	6,0
Total carbonates as calcium carbonate ($CaCO_3$), %	12–28	28–40
Calcium nitrate ($Ca(NO_3)_2$), %, max	1,5	1,5
Water, %, max	0,8	0,8
pH of 10% aqueous solution	6,5–7,5	6,5–7,5
Free flowing, %	100,0	100,0
Granule static strength, N/granule (kg/granule), min	15	15
Granulometry, %:		
less than 1 mm particles, max	3	3
1 mm to 5 mm particles, min	90	90
more than 6 mm particles, max	0	0

Produced at OSTCHEM production site: PJSC “RIVNEAZOT”