

Liquid ammonia technical (anhydrous ammonia)

Normative document: GOST 6221-90

Chemical formula: NH_3

Application

According to its application liquid ammonia technical is produced in 3 grades:

grade A – for nitrogen acid production, for nitration, as a coolant, for creating protective atmospheres;

grade Ak – for exporting;

grade B – for processing into fertilizers and for usage in agriculture as a nitrogen fertilizer.

Specifications

Description	Value		
	Grade A	Grade Ak	Grade B
Ammonia, %, min	99,9	99,6	99,6
Nitrogen content, %, min	–	82	82
Water (evaporation residue), %	–	0,2–0,4	0,2–0,4
Water (the Fischer method), %, max	0,1	–	–
Oil, mg/dm ³ , max	2	2	8
Iron, mg/dm ³ , max	1	1	2
Total Chlorine, mln ⁻¹ (mg/kg), max	–	0,5	–
Carbon monoxide (IV), mln ⁻¹ (mg/kg), max	–	30±10	–

Storage and transportation

Liquid ammonia technical is stored in land-based tanks in warehouses in accordance with security rules for ground storage of synthetic liquid ammonia. Cylinders filled with liquid ammonia technical are stored in special warehouses or on open areas under cover, that protects cylinders from precipitation and direct sunlight.

Liquid ammonia technical is transported in special railway or car tanks, in steel cylinders in covered vehicles, in tankers or via pipeline.

Guaranteed storage life: 1 year from the date of manufacture.

Produced at OSTCHEM production sites: PJSC "AZOT" (Cherkasy), PJSC "CONCERN STIROL", PJSC "RIVNEAZOT", PrJSC "SEVERODONETSK AZOT ASSOCIATION", AS "NITROFERT"