

AMMONIUM NITRATE (N34.4)

Product specification	Monomark standard
1. Appearance	White, reddish or yellowish granules
2. Mass fraction of TOTAL nitrogen (N), %, including:	34.4±0.3
– ammoniacal nitrogen (N-NH ₄), %	17.2±0.3
– nitric nitrogen (N-NO ₃), %	17.2±0.3
3. Moisture, %, max	0.3
4. pH (10 % water solution), min	5.0
5. Granule size:	
– from 1 to 4 mm, % min	97
– from 2 to 4 mm, %, min	88
– up to 1 mm, % max	1.5
– over 6 mm, %, max	0.0
6. Static granule strength, N/granule (kgf/granule), min	14 (1.4)
7. Friability, weight %, min	100
8. Porosity (oil retention after double thermal cycling at 25-50°C), %, max	4.0
9. Mass fraction of combustive materials recalculated into elemental carbon, %, max	0.2
10. Mass fraction of chlorine as chloride ion (Cl ⁻), %, max	0.02
11. Mass fraction of copper (Cu), mg/kg, max	10
12. Explosiveness (destruction of six lead cylinders)	Non-explosive
NOTES:	
1. Ammonium nitrate is produced with calcium and magnesium conditioning additives. Active surfactants can be used.	
2. In agreement with the customer, it is permitted to produce ammonium nitrate with other additives that may change the color of the product.	