Fertilizers

Granular urea 46%

Concentrated nitrogen fertilizer

46%



Material illustration

Technical characteristics

Granular urea is a concentrated nitrogen fertilizer, $CO(NH_2)_2$. Granule uniformity and mechanical strength are particularly relevant for spreading.

Property	Reference value	Method or source
Nominal total nitrogen	**46 %**	FAOSTAT
Chemical formula	**$CO(NH_2)_2$**	PubChem · Urea
CAS number	**57-13-6**	PubChem · Urea
Molar mass	**60.06 g/mol**	PubChem · Urea
Biuret	**≤ 1.5 %**	FAO
H_2O	**≤ 1 %**	FAO
Particle size	**≥ 90 % / 2–4 mm**	FAO

FAO limits are a published procurement example. Particle size is assessed by sieving, and moisture is expressed as a mass fraction.



Applications

For field spreading and dry fertilizer blends. Matching component particle sizes helps reduce segregation during transfer and transport.



Packaging and receipt

Options include palletised bags, bulk bags and loose bulk. Pack size depends on throughput and unloading equipment. Covered dry storage and moisture protection help preserve flow.

For acceptance, check the agreed specification and the certificate of analysis (COA) for the delivered lot.