

Product Data Sheet

Urea - Standard Technical Grade (Prilled/Granular)

Description

Description	Standard Technical Grade Urea is a high-nitrogen solid (46% N) supplied in prilled or granular form, used as a versatile industrial feedstock across resin/adhesive manufacturing, chemical synthesis and general nitrogen-source applications. This grade carries a standard biuret ceiling suited to general industrial use, distinct from the tighter biuret specifications required for AdBlue/DEF, melamine or pharmaceutical-grade urea.
Applications	Urea-formaldehyde (UF) and melamine-formaldehyde (MF) resin/adhesive manufacturing for plywood, particleboard and MDF General industrial nitrogen source and chemical synthesis feedstock Animal feed (non-protein nitrogen source, standard grade) Urea-based de-icing formulations
Grade	Standard Technical Grade, Biuret Max. 1.5%
CAS No.	57-13-6

Key Benefits

1. High nitrogen content (46% min) for efficient, cost-effective industrial nitrogen supply
2. Consistent prill/granule quality supporting reliable bulk handling and dosing
3. Versatile feedstock across resin, adhesive and general chemical synthesis applications
4. Widely available, actively traded commodity with established global pricing benchmarks
5. Suitable as a general-purpose grade where ultra-low biuret (AdBlue/melamine/pharma tier) is not required

Chemical Analysis & Physical Data

Typical Specification

Parameter	Test Method	Unit	Specification
Total Nitrogen (N)	Kjeldahl Method	wt%	Min. 46.0
Biuret	Titration / Spectrophotometric Method	wt%	Max. 1.5 (standard commercial ceiling)
Moisture	Oven-Drying / Karl Fischer Method	wt%	Max. 0.5
Free Ammonia	Titration Method	wt%	Max. 0.15
Particle Size (Prilled)	Sieve Analysis	mm	1.0 – 2.5
Particle Size (Granular, alt. form)	Sieve Analysis	mm	2.0 – 4.0
Bulk Density (Prilled)	Standard Bulk Density Method	g/cm ³	0.73 – 0.77
Appearance	Visual	–	White prills or granules

Packaging

Packaging 25 kg / 50 kg PP Woven Bags (with liner)
 500 kg / 1,000 kg Jumbo Bags (FIBC)
 Bulk (bulker/hopper truck or rail) available on request
 Custom packaging available on request.

Storage & Handling

1. Store in a cool, dry, well-ventilated warehouse away from moisture – product is hygroscopic and will cake if exposed to humidity
2. Keep bags sealed until point of use
3. Keep away from strong oxidising agents and chlorinated products
4. Stack on pallets away from direct ground contact
5. Segregate from AdBlue/DEF-grade or other tighter-spec urea to avoid mix-up

Quality Assurance

1. Every batch is tested against the specification above before dispatch
2. A batch-specific Certificate of Analysis (COA) accompanies each shipment, reporting nitrogen content, biuret and moisture against this TDS
3. COA available on request prior to shipment for buyer pre-approval
4. Third-party inspection (SGS/Intertek) can be arranged on request for regulated-market shipments

Disclaimer: The information provided in this document is based on our current knowledge and is intended as a general guide. Ochnology Solution Pvt. Ltd. reserves the right to modify specifications without prior notice. Buyers are advised to conduct their own testing for specific applications. A batch-specific Certificate of Analysis (COA) is available on request for each shipment.