

Darwin Chemical Company
600 N Pine Island Road
Plantation FL 33324-1311

UREA N46 Grade B
(GOST 2081-92)

Catalog Nr.	Q420																												
Definition	Occurs in urine and other body fluids. First organic compound to be synthesized. White crystals or powder, almost odorless, saline taste, d 1.335, mp 132.7C, decomposes before boiling. Soluble in water, alcohol, and benzene; slightly soluble in ether; almost insoluble in chloroform. Non-combustible.																												
CAS Number	57-13-6																												
Application	Fertilizer, animal feed, plastics, chemical intermediate, stabilizer in explosives, medicine (diuretic), adhesives, separation of hydrocarbons (as urea adducts), pharmaceuticals, cosmetics, dentrifices, sulfamic acid production, flame-proofing agents, viscosity modifier for starch or casein-based paper coatings, preparation of biuret.																												
Grades of Purity	Technical, CP, USP, Fertilizer (46% N), Feed (42% N)																												
Technical Data	<table><tr><td>NITROGEN</td><td>46.0% min</td></tr><tr><td>MOISTURE (Fisher)</td><td>0.5% max</td></tr><tr><td>(Drying)</td><td>0.3% max</td></tr><tr><td>FRIABILITY (100-biuret)</td><td>1.0% max</td></tr><tr><td>ANTI-CAKING AGENT</td><td>0.5% max</td></tr><tr><td>FREE AMMONIA (pxt)</td><td>160 ppm max</td></tr><tr><td>PRILL</td><td>95.0% max</td></tr><tr><td>MELTING POINT</td><td>132 C</td></tr><tr><td>COLOR</td><td>Pure White - Prilled</td></tr><tr><td>RADIATION CERTIFIED (Non Radioactive)</td><td>100.0%</td></tr><tr><td>PHYSICAL APPEARANCE</td><td>Free Flowing</td></tr><tr><td>GRANULOMETRY:</td><td></td></tr><tr><td>Particle Size 1-4mm</td><td>90.0% min</td></tr><tr><td>Particle Size less than 1mm</td><td>Not Present</td></tr></table>	NITROGEN	46.0% min	MOISTURE (Fisher)	0.5% max	(Drying)	0.3% max	FRIABILITY (100-biuret)	1.0% max	ANTI-CAKING AGENT	0.5% max	FREE AMMONIA (pxt)	160 ppm max	PRILL	95.0% max	MELTING POINT	132 C	COLOR	Pure White - Prilled	RADIATION CERTIFIED (Non Radioactive)	100.0%	PHYSICAL APPEARANCE	Free Flowing	GRANULOMETRY:		Particle Size 1-4mm	90.0% min	Particle Size less than 1mm	Not Present
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Packaging	1,000 kg big bags																												

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