



**PRODUCT INFO
& DATASHEET**

UREA TECHNICAL, LOW BIURET

Revised 18/10/2012

1. PRODUCT CHARACTERISTICS

*** CHEMICAL DESCRIPTION OF THE SUBSTANCE**

Designation	:	Urea
CAS-No	:	57-13-6
EINECS-No	:	200-315-5

*** CHARACTERISTIC PROPERTIES**

Chemical formula	:	(HN ₂) ₂ CO
Molecular weight	:	60.06 g/mol
Total nitrogen	:	46.5 %
Melting-range	:	132 – 135 °C
Bulk density (shaken)	:	circa 740 kg/m ³
Appearance	:	white, spherical form (prilled)
Average particle size	:	circa 1.6 mm

Surface treatment in using urea-formaldehyde-condensate for improving storing properties.

2. QUALITY CHARACTERISTICS

Testing features	Units	Values	Test according to our method
Urea content	%	Min. 99	P-03-03/001
Biuret*	%	Max. 0.6	P-03-03/002
Moisture	%	Max. 0.2	P-03-03/003
Alkalinity as NH ₃	%	Max. 0.01	P-03-03/007
Iron	%	Max. 0.0001	P-03-03/008
Water-insoluble ingredient	%	Max. 0.005	P-03-03/011
Ash content	%	Max. 0.002	P-03-03/012
pH-value (10% solution)		Max. 10	P-03-03/016

*** SPECIAL NOTE ABOUT THE LOW BIURET UREA TECHNICAL GRADE**

The typical biuret content of our "urea technical low biuret" is between 0.4 and 0.5 %.

The long term average is 0.46 % with a standard deviation of 0.4 %.

It is rare that 0.5 % is exceeded but it cannot be absolutely excluded.

We could not accept complaints due to biuret contents between 0.5 and 0.6 %.

Our specification quality characteristic is max. 0.6 %.

3. APPLICATIONS

- Raw material for glue and resin production
- Intermediate product for chemical industries
- Additive for the paper, plastic and textile industry and other industrial sectors
- Defrosting agent

4. TECHNICAL DATA

*** PACKING AND CONTAINERS**

- in bulk in special closed wagons and covered/closed trucks
- in big bags, filling quantity : 500 kg to 1000 kg
- in paper- and PE-bags, palletized, secured, filling quantity : 25 kg and 50 kg

*** TRANSPORTATION, LOADING AND UNLOADING, STORAGE**

- The effect of humidity during transport, loading and unloading and storage must be avoided.
- During external storage it is recommended to cover the bags with plastic foil.

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