

Knowledge grows

UREA, FEED GRADE

Protein supplement for ruminants (V15681)

Sales specification

Product Properties	Typical Analysis
Free moisture	< or = 0.5 %
Arsenic	1 mg/kg (max)
Lead	1 mg/kg (max)
Iron	1 mg/kg (max)
Total nitrogen as N	46.0 %
As protein equivalent	287 %
Buiret	< or = 1.5 %

Physical Properties	
Appearance	Light green, free flowing granules
Particle sizes	1-2.8 mm 90% min
Bulk Density (untamped) (Tamped)	0.73-0.75
Molecular mass	60
Boiling point	Decomposes
Melting point °C	132.6

Identification

Chemical Substances $CO(NH_2)_2$

Synonyms: NPN Protein, Urea prills

CAS No. 000057-13-6

Description

FEED GRADE UREA is pure urea (> 98 % $CO(NH_2)_2$ equivalent), used as a protein substitute in animal feeds (non-protein nitrogen, NPN), containing a small proportion of biuret (polymerised urea), which in itself may also be used in animal feeds.

UREA is in the form of free-flowing granules or prills, about 1,5-mm diameter, free from extraneous matter.

UREA may have a light green colour, when artificially coloured to distinguish it from other grades.

Undesirable Elements	Act 36/1947	UREA Values
Arsenic (As)	Max 2 mg/kg	Max 1 mg/kg
Lead (Pb)	Max 10 mg/kg	Max 1 mg/kg
Biuret	Max 15 g/kg	Max 15 g/kg
Free ammonia	Max 0.3 g/kg	Max 0.25 g/kg





Nutritive value

Feed grade urea is equivalent to 287% crude protein for ruminants. Feed Grade Urea is a cost-effective alternative source of protein for ruminants.

With Feed grade urea, you can reduce the inclusion of costly plant proteins in feeds while sustaining rumen parameters, milk yield, milk fat content, fertility, ADG and body condition.

Recommended use / application

This product is recommended for use as a protein source in feed concentrates, compound feeds, premixes, semi-liquid feed, liquid protein supplements, blocks, mineral feeds and free choice supplements for ruminants. UREA has no feeding value for monogastric animals.

Caution

FEED GRADE UREA could be poisonous if used indiscriminately. Read instructions on bag carefully.

Quality check references



рН	1 % solution
Moisture (free moisture)	(AOAC) Official Methods of Analysis, 1990, 15th Ed. 965.08 Vacuum-Desiccation Methods First Action 1965 – Final Action 1974.
Undesirable elements	AOAC Official Methods of Analysis, 15th Ed., Cd, 974.27, As, 957.22.

Classification, labelling and packaging

UREA is packed in 50kg woven polypropylene (WPP) bags with a polyethylene inner liner.

Handling and storage

UREA must be stored under cover in a cool dry place to ensure a shelf life of at least 3 years.

Transport and transport regulation

Urea is non toxic and not classified as hazardous under transport regulations.

Yara Animal Nutrition

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The information above is intended to serve as guidelines and does Not constitute a guarantee. We reserve the right to make changes. Valid from: 2015-10-01. Replaces all previous data sheets. English

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