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UREA

Urea 46-0-0

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1. Product Description

Urea 46-0-0 is the highest-analysis solid nitrogen fertiliser available, supplying 46% nitrogen in a single granule. That concentration means fewer tonnes moved and spread for the same nitrogen applied, which lowers freight and application cost per unit of N. Best applied during vegetative growth - cereals, pasture topdressing, grasses and leafy vegetables where canopy development drives yield. Because urea converts to ammonium before plants can use it, incorporate it, water it in, or apply ahead of rain to limit volatilisation losses; a urease inhibitor is worth considering for surface applications on warm, moist soils. Supplied granular in bulk or bagged by Natures Fertilizer, with a certificate of analysis on request.

2. Declared Analysis and Specification

Product name	Urea 46-0-0
Product code	UREA-46-0-0
Product family	Urea
Declared analysis (N–P–K)	**46–0–0**
Total nitrogen (N)	46%
Phosphorus (as P_2O_5)	0%
Potassium (as K_2O)	0%
Total nutrient content	46% (46 units)
Elemental phosphorus (P)	0%
Elemental potassium (K)	0%
Nutrient supplied per tonne	460 kg N · 0 kg P_2O_5 · 0 kg K_2O
Physical form	Granular
Water solubility	Soil-applied granular product
Packaging	Bulk, one-tonne bulka bag or bagged — confirmed on your quotation
Minimum order	**10 – 25 MT**, depending on the product and the destination — confirmed on your quotation
Availability	Australia-wide delivery; international shipping on request
Certificate of Analysis	Issued on request against your delivered batch
Safety Data Sheet	Available on request — request it before handling

3. Nutrient Loading

One tonne of Urea 46-0-0 supplies **460 kg of nitrogen (N)**, **0 kg of phosphate (P_2O_5)** and **0 kg of potash (K_2O)**. Total nutrient content is 46 units per 100 kg.

Rate applied	N supplied	P2O5 supplied	K2O supplied
50 kg/ha	23 kg/ha	0 kg/ha	0 kg/ha

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Rate applied	N supplied	P2O5 supplied	K2O supplied
100 kg/ha	46 kg/ha	0 kg/ha	0 kg/ha
150 kg/ha	69 kg/ha	0 kg/ha	0 kg/ha
200 kg/ha	92 kg/ha	0 kg/ha	0 kg/ha
250 kg/ha	115 kg/ha	0 kg/ha	0 kg/ha

Indicative conversion only. Application rates must be set against a current soil test and confirmed with a qualified agronomist.

4. Typical Application

Vegetative growth and topdressing

This is a straight nitrogen product. It drives canopy and tiller development rather than root establishment or grain fill, so it belongs in the part of the season where leaf area is what limits yield — cereal topdressing, pasture, forage and leafy vegetables.

Granular urea, the highest-analysis solid nitrogen source available.

5. Packing and Quantities

Format	Net weight	Typically used for
25 kg bag	25 kg	Small holdings, trial quantities, hand or small spreader application
50 kg bag	50 kg	Standard bagged supply for general farm and horticultural use
500 kg bulka bag (FIBC)	500 kg	Loader or telehandler handling where a full tonne is too much
1,000 kg bulka bag (FIBC)	1 tonne	The standard broadacre unit — one bag, one lift
Bulk	By the tonne	Tipped or augered into your bin or spreader; lowest cost per tonne

Minimum order is 10 - 25 MT depending on the product and the destination. Exact packing and tonnage are confirmed on your quotation.

6. Container Loading (20ft FCL)

Packing	Loading method	Units per 20ft	Net weight
25 kg bags	Floor loaded (loose stacked)	1,000 bags	25 MT
25 kg bags	Palletised, 40 bags per pallet, shrink-wrapped	20 pallets / 800 bags	20 MT
50 kg bags	Floor loaded (loose stacked)	500 bags	25 MT
50 kg bags	Palletised, 20 bags per pallet, shrink-wrapped	20 pallets / 400 bags	20 MT
500 kg bulka bags	Floor loaded, two tiers	40 – 50 bags	20 – 25 MT
1,000 kg bulka bags	Floor loaded, single tier	20 – 25 bags	20 – 25 MT
Bulk	Loaded into a container liner bag	—	25 – 27 MT

Fertiliser is a dense cargo: a 20ft container reaches its weight limit at roughly 25-27 tonnes while still only part full, so a 40ft box offers no usable gain. Shipping in 20ft containers is standard and is normally the cheaper freight per tonne.

7. Handling and Storage

Store dry, off the ground and out of direct weather. Nitrogen and ammonium-based fertilisers are hygroscopic: they draw moisture from the air and will cake or set hard if left exposed. Keep bags closed until use, rotate stock, and do not stack beyond the height the packaging is rated for. Avoid contamination with other chemicals.

Request the Safety Data Sheet for this product before it is handled. The SDS covers hazard classification, personal protective equipment, first aid and spill response, and it must be accessible to everyone who handles, transports or stores the product.

8. Supply and Documentation

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Minimum order	10 - 25 MT, depending on product and destination
Delivery	Australia-wide - every state and territory
Export	International shipping worldwide, quoted per container
Certificate of Analysis	Issued on request against your delivered batch
Safety Data Sheet	Available on request
How to order	Enquiry and written quotation only - no online ordering or payment
Payment	Bank transfer only - EFT within Australia, T/T (telegraphic transfer) for export. Terms are stated on your quotation.
Bank details	Issued on our invoice only. We never change account details by email alone - verify by phone before transferring funds.
Enquiries	info@naturesfertilizerptyltd.com | 0420 129 507

Disclaimer. The analysis stated in this data sheet is the nominal specification for this product. It is not a guarantee of the composition of any particular consignment. Where a Certificate of Analysis is issued for a delivered batch, that certificate governs and takes precedence over this document. This data sheet is technical product information and is not agronomic advice; fertiliser selection and application rates depend on soil type, moisture, crop, rotation and season, and should be confirmed with a qualified agronomist. This document is not a Safety Data Sheet.