## UREA SPECIFICATIONS

## 1. PRILLED UREA

QUALITY SPECIFICATIONS White prilled

MASS PART NITROGEN

46.2%

BIURET, NOT MORE THAN

1.0%

MOISTURE NOT MORE THAN 0.5%

1mm to 4mm 90% min.

GRANULOMETRY (GRANULES SIZE) FREE AMMONIA

160 pxt ppm max.

MELTING POINT

133 - 135°C

**CRUMBLINESS** 

PHYSICAL PROPERTIES

Non radioactive, white, free flowing, free from harmful substances, 100% treated against caking

## 2. GRANULATED UREA

**QUALITY SPECIFICATIONS** White granules

NITROGEN RECALCULATED TO DRY

46.2%

BIURET, NOT MORE THAN 1.0%

WATER, NOT MORE THAN 0.5%

GRANULOMETRY (GRANULES SIZE) 2mm to 4mm 90% min.

FREE AMMONIA 160 pxt ppm max.

MELTING POINT

133 - 135°C

CRUMBLINESS 100%

PHYSICAL PROPERTIES Non radioactive, white, free flowing, free from harmful substances coated, spherical & uniform in size, 100% treated against caking.

## 3. UREA DEFINED

Urea is a white dry organic compound and a crystalline substance and has minimum of 46% Nitrogen calculated in dry state. This has the melting point of 133 - 135°C.

CHEMICAL FORMULA FOR UREA CO(NH<sub>2</sub>)<sup>2</sup> or NH<sub>2</sub>CONH)<sup>2</sup>

HOW IS UREA MADE? Urea is produced by letting carbon dioxide (CO<sub>2</sub>) react with anhydrous ammonia (NH<sub>3</sub>) under a pressure of 140 - 170 bar and temperatures of around 190°C. Water is removed during processing and the molten matter is converted to either prills or granules.

SHAPE OF UREA Urea is generally supplied as white prills or crystals/grains, where the crystals are larger than the prills.

PACKING OF UREA Commercial Urea is available in any desired packing. However, it is generally packed in 50 kg bags or supplied in bulk/loose.

**COUNTRY OF ORIGIN FOR UREA** 

Urea is produced in several countries, some major producers are:

China India Indonesia Iran Pakistan Russia Ukraine Italy

Saudi Arabia Others

This above information is from sources and data believed to be reliable. Kingsberg Group makes no warranty as to the absolute correctness of any of the foregoing or that no additional measures would be required.

