

1,500 TPD UREA GRANULATION PLANT

Capacity: 1,500 tpd

Year Built: 2001

Shut Down: 2002

Feedstock: Liquid urea

Technology: Uhde of Germany

Product specification (urea granules)

Total Nitrogen: 46.0 wt% Min.

Moisture: 0.3 wt% Max.

Biuret: 1.0 wt% Max.

Free Ammonia: 50 ppm Max.

Iron: 1.0 ppm Max.

Crushing strength: Min. 3.0 kg at
3.15 mm

Urea size (2~4mm): 92 wt% Min.

Formaldehyde: 0.55 wt% Max.

PH of at 10% solution: 8 ~ 10

Major Equipment:

- UREA SOLUTION VACUUM SEPARATOR
- GRANULATOR SCRUBBER
- FLUIDIZATION AIR HEATER
- ATMIZATION AIR BLOWER
- GRANULATOR SCRUBBER CIRCULATION PUMP



BRIEF PLANT DESCRIPTION

In the fluid bed process, granular urea is produced by spraying liquid urea onto seed material in the fluidized state. Only concentrated urea solution is required as feed stock instead of a pure urea melt. The spraying occurs in the core of a fluidized layer by means of a large number of spray head. Aqueous formaldehyde solution is added to the urea solution before spraying, as a process aid and anti-caking agent or, when locally available, liquid urea formaldehyde pre-condensate is favored. The granulated product extracted from granulator by the vibrating extractors flows to the fluid bed cooler. Urea granules cooled down to an intermediate temperature are lifted by the bucket elevator to the sieving section where they are classified in the three fractions over/undersize and on-size.

CONTACT US FOR MORE DETAILS

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