Nutrien
Feeding the Future™

**Fertilizer Product Data Sheet**
Effective Date: **May 15, 2023**
Product Code: **509**
Location: **Borger**
SDS: **509-14027**

# Urea Granular

# Agricultural Grade

# 46-0-0

## CHEMICAL ANALYSIS

| Component | Units | Minimum | Maximum | Typical |
|---|---|---|---|---|
| Total Nitrogen | wt. % N | 46.0 | | 46.2 |
| Biuret | wt. % | | | 0.8 |
| Conditioner* | wt. % | | | 2.0 |
| Moisture | wt. % $H_2O$ | | | 0.3 |
| Free Ammonia | ppm $NH_3$ | | | 24 |
| pH,10% | (w/w) | | | 8.0 |

**Conditioner is **Urea, reaction products with formaldehyde (CAS# 68611-64-3)**, calculated as Methylenediurea (MDU).*

## PHYSICAL ANALYSIS

| Component | Units | Minimum | Maximum | Typical |
|---|---|---|---|---|
| Angle of Repose | degrees | | | 27 - 28 |
| Color | | | | White |
| Bulk Density (Loose) | $lb/ft^3$ | | | 50 |
| | $kg/m^3$ | | | 802 |
| SGN | | 275 | 320 | 300 |
| Uniformity Index | | | | 60 |

## PARTICLE SIZE DISTRIBUTION

| | Tyler Mesh | US Mesh | mm Mesh | Typical wt. % |
|---|---|---|---|---|
| *Retained on . . .* | 6 | 6 | 3.35 | 26.0 |
| | 7 | 7 | 2.80 | 65.0 |
| | 8 | 8 | 2.36 | 93.0 |
| | 9 | 10 | 2.00 | 99.0 |
| | 10 | 12 | 1.70 | 100.0 |
| *Passing through. . .* | 10 | 12 | 1.70 | 0 |

**Refer to a Safety Data Sheet for more information**

Typical results are based on historical data records. Grab samples or individual car samples may fall outside of the typical range.

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