



**The Chemical Company**  
19 Narragansett Avenue  
Jamestown, RI 02835  
Phone: (401) 423- 3100

## Product Specification – Urea

<b>Product</b>	<b>Urea</b>
<b>Grade</b>	Industrial
<b>Physical Form</b>	Solid Prills
<b>Other names</b>	Carbamide
<b>Chemical Formula</b>	$\text{CO}(\text{NH}_2)_2$
<b>Source</b>	Montreal, Quebec Canada

<b><u>Chemical Analysis</u></b>	<b><u>Specification</u></b>	<b><u>Typical Analysis</u></b>
Purity as CO (NH <sub>2</sub> ) <sub>2</sub> %	99.0	99.0
Total Nitrogen, %	46.0 Min	46.4
Moisture, % H <sub>2</sub> O	0.3 Max	0.15
Biuret, %	1.2 Max	1.0
Alkalinity as NH <sub>3</sub> , ppm	-	<120
Colour A.P.H.A Units	10 max	3
Turbidity as SiO <sub>2</sub> , ppm	20 max	15
pH 10% Solution	-	7.3- 9.5
Formaldehyde, %	-	0.2

### **Physical Properties: (approx.)**

Bulk Density	750 kg/ m <sup>3</sup> (46 lb/ ft <sup>3</sup> )
Melting Point	132°C (270°F)
Particle Size (average)	1.8 mm
Angle of Repose	34°