



Product Specifications  
Effective: January 12, 2012  
Location: Carseland

ESN  
**44-0-0**  
Polymer Coated Urea

**CHEMICAL ANALYSIS**

Component/Equivalent	Units	Minimum	Typical
Total Nitrogen	wt. % N	44.0	-
Urea Nitrogen	wt. % N	44.0	-
Biuret	wt. %	-	1.3
Conditioner (Methylene Di-Urea)	wt. %	-	1.2
Moisture	wt. % H <sub>2</sub> O	-	0.08
pH of Aqueous Solution	10% wt./wt.	-	7.0
Coating Weight	wt. %	-	3.3

**PHYSICAL ANALYSIS**

Parameter	Unit	Range	Typical
Color (L.A.B.)	-	-	Green
Angle of repose	degrees	-	19.6
Bulk density	lb/ft <sup>3</sup> kg/m <sup>3</sup>	-	48 769
Size Guide Number (SGN)	-	290-310	300

**AQUEOUS RELEASE ANALYSIS**

Estimated days to 80% release (23°C, 73°F) 40 days Minimum, 90 days Maximum  
(as manufactured and shipped)

**PARTICLE SIZE DISTRIBUTION**

	Tyler Mesh	US Mesh	mm Mesh	Typical wt. %
Retained on . . .	6	6	3.35	23.0
	7	7	2.80	80.0
	8	8	2.36	97.0
	9	10	2.00	99.7
	10	12	1.70	100.0

**Please obtain a Material Safety Data Sheet for more information.**

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