

ESN Polymer Coated Urea

44-0-0

CHEMICAL ANALYSIS

Component	Units	Minimum	Maximum	Typical
Total Nitrogen	wt. % N	44.0		
Urea Nitrogen	wt. % N	44.0		
Biuret	wt. %			1.0
Conditioner*	wt. %			2.0
Moisture	wt. % H ₂ O			0.20
pH, 10%	(w/w)			7.0
Coating Weight	wt. %			3.2

*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			19.6
Bulk Density (Loose)	lb/ft ³ - kg/m ³			48 / 769
Bulk Density (Tapped)	lb/ft ³ - kg/m ³			53 / 849
Color				Green
Size Guide Number (SGN)		250	290	270

AQUEOUS RELEASE ANALYSIS

Estimated days to 80% release (23°C/73°F)

As delivered to retailer 50 days Minimum, 100 days Maximum

PARTICLE SIZE ANALYSIS

	Tyler Mesh	US Mesh	mm Mesh	Typical wt. %
Retained on . . .	6	6	3.35	13.0
	7	7	2.80	42.0
	8	8	2.36	79.0
	9	10	2.00	96.0
	10	12	1.70	98.0
Passing through . . .	10	12	1.70	2.0

Refer to a Safety Data Sheet for more information

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