



CERTIFICATE OF ANALYSIS

COA: 59142

Supplier: Oxiteno USA, LLC - Dunavant
Address: 10629 RED BLUFF, TX 77507
Manufacturer: 3647 Willowbend Blvd, TX 77054

Customer: CASCADE COLUMBIA DISTRIBUTION
Sales Order: 10546
Customer PO: 119382
Oxiteno Product Code: 206357
Oxiteno Product Name: ULTRAPEG 8000 F
Oxiteno Customer Prod. Code/Name 568600FM
Lot: 050120C0006-T017001
Status: Approved
Amount: 4629.629631b.
Manufacture Date: 05/01/2020
Expiration Date: 05/01/2022

Tests	Analytical Method	Minimum Limit	Maximum Limit	Results
Completeness and color of solution	MA-1228	---	---	Pass
Dioxane, ppm	MA-1421	0	1	1
Ethylene Oxide, ppm	MA-1421	0	1	0
Hydroxyl value, mgKOH/g	MA-525	12.5	16.0	13.0
Average molecular weight, g/mol	MA-525	7000	9000	8650
Sulfated ashes, wt%	MA-612	0.00	0.10	0.02
Acid value, mgKOH/g	MA-638	0.00	0.50	0.10
pH, 5% wt/v aqueous solution, 25°C	MA-729	4.5	7.5	6.0
Viscosity, 98,9°C +/- 0,3°C, cSt	MA-766	470	900	968
APHA Color, 25% aqueous solution, 25°C	MA-841	0	30	11
Water, wt%	MA-875	0.0	1.0	0.3

The product has the mentioned shelf life if kept under proper storing conditions.

David J. Henley

[LIMS] SAMPLE NUMBER: 386360
[LIMS] CONTROL CODE: 124C6F22-7DEB-4913-A9CF-3377B45505D1



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