



K alchem International, Inc
Compounding Chemicals You Can Trust

DUPONT 298900

DDP SPECIALTY ELECTRONIC MATERIALS US, INC.

SAP # 16152767
BATCH # D180K8E042

UNIVAR USA INC
BEDFORD PARK BRANCH
8500 W 68TH ST STE 2
BEDFORD PARK IL 60501-1850

Ship From: BAY CITY Whse
BAY CITY
Michigan, United States

Certificate of Analysis

Product Number 00000016538
Product Name METHOCEL™ E4M Premium Hydroxypropyl Methylcellulose
Delivery No. 861657004 / 000030
Order Number 139012068
Shipping Units 30.000 BAG
Date Shipped 2020-09-11 (YYYY-MM-DD)
Shipment No. 49119511

Customer Information

Customer Name UNIVAR USA INC
Customer PO number CB-234522
Customer Product Code 298900
Container ID LRGR-103

Batch Number D180K8E042
Retest Date 2022-08-14 (YYYY-MM-DD)
Manufacturing Date 2020-08-14 (YYYY-MM-DD)
Quantity 30.000 BAG
Net Weight 1500.026 LB / 680.400 KG
Manufacturing Plant MIDLAND Methocel
Country of Origin US
Country of Origin Name United States

Premium grade products have been manufactured using Excipient Good Manufacturing Practices and the FSSC 22000 Food Safety System, and meet the requirements of the current USP, EP, JP and ChP monographs for Hypromellose as well as the current E464 in EU 231/2012 and any amendments, JECFA, and FCC monographs for Hydroxypropyl Methylcellulose.

Test	Unit	Lower Limit	Upper Limit	Value	Method
Apparent Viscosity 2% in water, @ 20degC	mPa.s	2663	4970	4249	USP/EP/JP/ChP
Loss on Drying	%		5.0	2.0	USP/EP/JP/ChP
Residue on Ignition	%		1.5	0.3	USP/JP/ChP
Ash, Sulfated	%		1.5	0.3	Current USP/EP/JP
pH, 2% in Water		5.0	8.0	6.5	USP/EP/JP/ChP
Assay, Methoxyl	%	28.0	30.0	28.8	USP/EP/JP/ChP
Assay, Hydroxypropoxyl	%	7.0	12.0	9.1	USP/EP/JP/ChP
Appearance Opalescence	-	-	-	Pass	Current EP
Appearance Solution Color	-	-	-	Pass	Current EP

This batch, based on audit testing and process control, is certified to be NMT 20 ppm heavy metals (as Pb) and also meets all specification requirements for harmonized identification tests, residual solvents and microbiological limits.



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Shari Workentine

Shari Workentine
Quality System Specialist

For inquiries please contact Customer Service or local sales

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