

Certificate of Analysis

	Customer Order: Shipped Quantity: 175.000 BX Shipped From: ASI US CHARLOTTE W3P Order Number: Delivery: Date Shipped: May 18, 2020 Sold To Number:
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BENECEL E4M BOX 18.14KG
 Benecel(TM) E4M HPMC Type 2910 3600 mPas Hydroxypropylmethyl Cellulose
 Ashland Material Number: 821891
 Customer Material Number:

Batch: 0002444678

Characteristics	Specification	Results
Loss on drying (DQC REG 01.01b) %	0.0 - 5.0	0.6
Viscosity 2% solution, dry (DQC REG 01.02) mPa.s	2700 - 5040	4647
pH of solution (DQC REG 01.03)	5.0 - 8.0	6.8
Methoxyl content (DQC REG 01.05b) %	28.0 - 30.0	29.0
Hydroxy Propoxyl content (DQC REG 01.05b) %	7.0 - 12.0	8.7
Sulphate Ash/Res. On Ign. (DQC REG 01.06a) %	0.0 - 1.5	0.8
Date of Manufacture		January 07, 2020
Retest Date		January 06, 2023
Shipped Quantity		175.000 BX

Notes:

ID - pass

The Certified range data below are based on intermittent testing:

- Propylene Chlorohydrins, ppm: <=0,1
- Heavy metals, (as Pb), ppm :<=20
 - As , ppm :<=3
 - Cd , ppm :<=1
 - Hg , ppm :<=1
 - Pb , ppm :<=2

The above product is compliant with the monograph requirements for hydroxypropylmethylcellulose in the current editions of the FCC, the JECFA; INS 464 and the EC 231/2012; E 464. This product has been manufactured in accordance with current Good Manufacturing Practices in 21CFR Part 110.

Best if used within 3 years of date of manufacture. Our products have a retesting interval, which is assigned to assure that the product can still satisfy the original specifications to which these products are sold.

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Characteristics	Specification	Results



 Piet Arnaut
 QC Team Leader

This COA is printed from a secure computer system ensuring the batch was properly released by the Quality Department and is valid with electronic signature.

Manufactured by:
 ASHLAND SPECIALTIES BELGIUM BVBA
 AFFILIATE OF ASHLAND
 HAVEN 1920, GESLECHT 2
 9130 DOEL-BEVEREN
 BELGIUM

Contact:
 DREW DETWILER
 Phone: 877-822-5703
 Email: ASIDISTRIBUTOR@ASHLAND.COM