NMP (1-Methyl-2-pyrrolidinone) ALEG®

Positive Photoresist Stripper





Material No.: 6397-05 Batch No.: 0000088716 Manufactured Date: 2014/08/12 Retest Date: 2019/08/11

Certificate of Analysis

| Test | Specification | Result |
|--|---------------|--------|
| Assay (C ₅ H ₉ NO) | >= 99.5 % | 100.0 |
| Color (APHA) | <= 20 | <5 |
| Water (H2O)(by Karl Fischer titrn) | <= 0.05 % | < 0.01 |
| Free Amines (as CH3NH2) | <= 50 ppm | 1 |
| Chloride (Cl) | <= 0.5 ppm | < 0.5 |
| Phosphate (PO4) | <= 1 ppm | < 1 |
| Trace Impurities - Aluminum (AI) | <= 100.0 ppb | 0.7 |
| Arsenic and Antimony (as As) | <= 100 ppb | < 10 |
| Trace Impurities – Barium (Ba) | <= 100.0 ppb | < 0.5 |
| Trace Impurities – Boron (B) | <= 100.0 ppb | < 2.0 |
| Trace Impurities – Calcium (Ca) | <= 300.0 ppb | 1.0 |
| Trace Impurities – Chromium (Cr) | <= 100.0 ppb | < 1.0 |
| Trace Impurities - Cobalt (Co) | <= 100.0 ppb | < 1.0 |
| Trace Impurities - Copper (Cu) | <= 100.0 ppb | < 0.5 |
| Trace Impurities – Gold (Au) | <= 100.0 ppb | < 0.5 |
| Trace Impurities – Iron (Fe) | <= 100.0 ppb | < 1.0 |
| Trace Impurities – Lead (Pb) | <= 100.0 ppb | < 3.0 |
| Trace Impurities – Lithium (Li) | <= 100.0 ppb | < 0.5 |
| Trace Impurities – Magnesium (Mg) | <= 100.0 ppb | < 0.5 |
| Trace Impurities – Manganese (Mn) | <= 100.0 ppb | < 1.0 |
| Trace Impurities – Nickel (Ni) | <= 100.0 ppb | < 1.0 |
| Trace Impurities – Potassium (K) | <= 100.0 ppb | < 4.0 |
| Trace Impurities – Silver (Ag) | <= 100.0 ppb | < 1.0 |
| Trace Impurities – Sodium (Na) | <= 300.0 ppb | < 1.0 |

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|---|---------------|--------|
| Trace Impurities – Strontium (Sr) | <= 100.0 ppb | < 0.5 |
| Trace Impurities – Tin (Sn) | <= 100.0 ppb | < 2.0 |
| Trace Impurities - Titanium (Ti) | <= 100.0 ppb | < 1.0 |
| Trace Impurities - Vanadium (V) | <= 100.0 ppb | < 0.5 |
| Trace Impurities – Zinc (Zn) | <= 100.0 ppb | < 1.0 |
| Particle Count – 1.0 µm and greater (Rion KS42AF) | <= 10 par/ml | < 1 |
| | | |

For Microelectronic Use

Country of Origin: US

Packaging Site: Phillipsburg Mfg Ctr & DC

Phillipsburg, NJ 9001:2008, 14001:2004 Paris, KY 9001:2008 Mexico City, Mexico 9001:2008 Deventer, The Netherlands 9001:2008, 14001:2004, 13485:2003 Gliwice, Poland 9001:2008, 17025:2005 Selangor, Malaysia 9001:2008 Dehradun, India, 9001:2008, 14001:2004, 13485:2003 Mumbai, India, 9001:2008, 17025:2005

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