

Certificate of Approval

This is to certify that the Management System of:

Element Solutions Inc

245 Freight Street, Waterbury, CT, 06702, United States

has been approved by Lloyd's Register to the following standards:

ISO 9001:2015

Approval number(s): ISO 9001 – 0078022

This certificate is valid only in association with the certificate schedule bearing the same number on which the locations applicable to this approval are listed.

The scope of this approval is applicable to:

Design, Manufacture, Testing, Distribution and Services of Soldering Products, Coated Films, Specialty Chemicals, Stencils, Photomasks, Photopolymer Plates, Pellicle Replacement and Requalification Services for the Electronics, Semiconductor, Printing, Automotive, Microelectronics, Drilling and Off Shore Oil and Gas, Military, Aerospace, Medical and Flexographic Industries.



Cliff Muckleroy

Area Operations Manager Americas

Issued by: Lloyd's Register Quality Assurance, Inc.

for and on behalf of: Lloyd's Register Quality Assurance Limited



Certificate Schedule

Location	Activities
MacDermid, Inc. 245 Freight Street, Waterbury, CT, 06702, United States	ISO 9001:2015 Customer Service of Proprietary Specialty Chemicals.
MacDermid Enthone Advanced Electronics Solutions 350 Frontage Road, West Heaven, CT, 06516, United States	ISO 9001:2015 Design and Manufacture of Specialty Plating Products used in Coating Processes for the Semi-Conductor, Electronics and Metal Finishing Industries.
MacDermid Enthone America, LLC 5630 Pioneer Creek Drive, Maple Plain, MN, 55359, United States	ISO 9001:2015 Manufacture and Distribution of Specialty Chemicals for the Electronics and Engineered Coatings Industries.
Alpha Advanced Materials 3950 Johns Creek Court Suite 300, Suwanee, GA, 30024, United States	ISO 9001:2015 The Design and Service Activities for Product Lines used in Semi-Conductor Packaging, Military, Aerospace, Medical and Microelectronic Applications, including the Manufacture of Adhesives, Coatings, and Getters.
MacDermid Graphics Solutions 5700 Commerce Boulevard, Morristown, TN, 37814, United States	ISO 9001:2015 The Manufacturing of Sheet Printing Plates and Liquid Resin to Establish Product Specification for Orders Received through Customer Service Department Located in Atlanta, Georgia.
MacDermid Offshore Solutions 223 Brockman Street, Pasadena, TX, 77506, United States	ISO 9001:2015 Manufacture of Proprietary Specialty Chemicals for Drilling and Production in the Offshore Oil and Gas Industry.



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Location	Activities
MacDermid, Inc. 1221 Farrow Street, Ferndale, MI, 48220, United States	ISO 9001:2015 Manufacturing of Proprietary Specialty Chemicals.
Alpha Assembly Solutions, Inc. A MacDermid Performance Solutions Company 4100 Sixth Avenue, Altoona, PA, 16602, United States	ISO 9001:2015 Manufacture of Solder Alloy Products for the Electronics Industry and Industrial Applications. Recycling of Solder Materials.
Kester 800 W. Thorndale Ave, Itasca, IL, 60143, United States	ISO 9001:2015 Design and Manufacture of Bar and Wire Solder, Solder Preforms, Thermal Interface Materials (TIM), Solder Paste, Soldering Fluxes, Tacky Soldering Fluxes, and Related Chemicals.
Kester 940 West Thorndale Ave, Itasca, IL, 60143, United States	ISO 9001:2015 Manufacture of Bar and Wire Solder.
MacDermid (Panyu) Specialty Chemical Co., Ltd 62 Lixinsha East Road Wanqingsha Town, Nansha District, Guangzhou, Guangdong 511462, China	ISO 9001:2015 Manufacture of Electroplating Additives.
Alent Enthone Chemistry (Shanghai) Co., Ltd. No. 29 of North Chuhua Road, Fengxian District, Shanghai City 201417, China	ISO 9001:2015 The Manufacture and Application Technical Service of Electroplating Additives.
Macdermid Technology (Suzhou) Co., Ltd No. 23, Longtan Road, SIP Suzhou, Suzhou City, Jiangsu 215126, China	ISO 9001:2015 Manufacture of Chemicals for use in the Metal Plating and Printed Circuit Board Industries, Printing Industries, including Plated Through Hole (pth), Oxidants, Plating Brightener, Cleaners, Black Hole, Chromate Conversion, Plating on Plastic, Strippers and Autotype.



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Location	Activities
MacDermid Performance Solutions 26 Tuas West Road, Singapore 638382, Singapore	ISO 9001:2015 Manufacturing and Distribution of Specialty Chemicals.
Alpha Advanced Materials 14 Joo Koon Crescent, Singapore 629014, Singapore	ISO 9001:2015 The Manufacture of Electronic Polymers. The Sales and Distribution of Soldering Products.
MacDermid Autotype Limited Grove Road, Wantage, OX12 7BZ, United Kingdom	ISO 9001:2015 Design, Development, Manufacture and Distribution of Coated Films and Chemical Products for the Printing, Electronics and Automotive Applications. The Manufacture of Water Treatment Chemical Products. Design and Manufacture of Coated Films and Formable Texturing Lacquers.
Fernox Ltd. Unit 16, Howard Court, East Kilbride, G74 4QZ, United Kingdom	ISO 9001:2015 The Manufacture & Sales of Laser Cut Stencils for use in the Electronics Industry Assembly Processes.
MacDermid Canning Limited Trading As: MacDermid Offshore Solutions (UK) Cale Lane, New Springs, Wigan, WN2 1JR, United Kingdom	ISO 9001:2015 The Development, Production, Blending and Supply of Oils, Hydraulic Fluids and Specialist Chemicals to Customer Requirements. The Provision of a Service to Source Specialty Chemicals to Customer Requirements. The Manufacture and Distribution of Photopolymer Plates for the Flexographic Printing Industry.
MacDermid Performance Solutions UK Limited 198 Golden Hillock Road, Birmingham, B11 2PN, West Midlands, United Kingdom	ISO 9001:2015 The Design, Manufacture & Supply of Specialty Chemicals.



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<p>Macdermid Enthone de México, S.A. de C.V. Norte 59 No.896 Col. Industrial Vallejo, 02300 Ciudad de México, Mexico</p>	<p>ISO 9001:2015 Manufacture of Specialty Plating Products Used in Coating Processes, Electronics and Metal Finishing Industries, and Manufacturing of Soldering Fluxes and Related Chemical Products for Electronic Circuit Board Assembly and other Industrial Applications.</p>
<p>MacDermid Performance Solutions Taiwan Ltd. No. 77 Kuang Fu N. Road Hsin-Chu Enlarged Industrial Park, Hsinchu 303, Taiwan</p>	<p>ISO 9001:2015 Manufacture and Supply of Specialty Chemicals for the PCB, LED, Photovoltaics, Semiconductor Packaging and Surface Finishing Industry.</p>
<p>MacDermid Performance Solutions Italiana Srl V.le Industria 20, 35030 Rubano, Italy</p>	<p>ISO 9001:2015 Research and Development, Production by Mixing, Sale and Technical Service of Chemical Specialties for Electroplating, for Electroplating in Electronics, for Heat Treatments, for Industrial Cleaning and Surface Conversion Treatments, for PET Recycle, for Metalworking Fluids. Sale and Technical Service of Chemical Specialties for Electroplating, for Electroplating in Electronics, for Heat Treatments, for Industrial Cleaning and surface conversion treatments, for electrochemical and Chemical Processes, including the use of Precious Metals for Decorative and Electronics Applications and for Metallization of Circuits, for PET Recycle, for Metalworking Fluids.</p>



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<p>MacDermid Performance Solutions Italiana Srl Via Botalla 3, 13900 Biella, Italy</p>	<p>ISO 9001:2015 Research and Development, Production by Mixing, Sale and Technical Service of Chemical Specialties for Electroplating, for Electroplating in Electronics, for Heat Treatments, for Industrial Cleaning and Surface Conversion Treatments, for PET Recycle, for Metalworking Fluids. Sale and Technical Service of Chemical Specialties for Electroplating, for Electroplating in Electronics, for Heat Treatments, for Industrial Cleaning and surface conversion treatments, for electrochemical and Chemical Processes, including the use of Precious Metals for Decorative and Electronics Applications and for Metallization of Circuits, for PET Recycle, for Metalworking Fluids.</p>
<p>MacDermid Performance Solutions Italiana Srl Via Enrico Mattei 4, 62012 Civitanova Marche, Italy</p>	<p>ISO 9001:2015 Research and Development, Production by Mixing, Sale and Technical Service of Chemical Specialties for Electroplating, for Electroplating in Electronics, for Heat Treatments, for Industrial Cleaning and Surface Conversion Treatments, for PET Recycle, for Metalworking Fluids. Sale and Technical Service of Chemical Specialties for Electroplating, for Electroplating in Electronics, for Heat Treatments, for Industrial Cleaning and surface conversion treatments, for electrochemical and Chemical Processes, including the use of Precious Metals for Decorative and Electronics Applications and for Metallization of Circuits, for PET Recycle, for Metalworking Fluids.</p>
<p>MACDERMID PERFORMANCE SOLUTIONS KIMYASAL SAN. VE TIC. A.S Kimyasal Sanayi ve Ticaret A.Ş. Birlik Organize Sanayi Bolgesi Aydinli Mahallesi Cad. No.7, BOSB, Aydinli Mah., Tem, Yan Yol 1 No.lu, 34953 Istanbul, Turkey</p>	<p>ISO 9001:2015 Sales, Supply and Technical Service of Surface Treatment Chemicals.</p>



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MACDERMID PERFORMANCE SOLUTIONS FRANCE SAS 15 porte du Grand Lyon, 01700 Neyron, France	ISO 9001:2015 Commercialization of Chemicals for Surface Treatment.
Alpha Assembly Solutions France SAS ZI La Bergerie, Rue Gustave Eiffel CS 10734, 49280 La Séguinière, France	ISO 9001:2015 The Manufacture & Sales of Laser Cut Stencils for use in the Electronics Industry Assembly Processes.
Alpha Assembly Solutions Belgium NV Hoge Mauw 1050, 2370 Arendonk, Belgium	ISO 9001:2015 The Manufacture & Sales of Laser Cut Stencils for use in the Electronics Industry Assembly Processes.
MacDermid Enthone Electronics Solutions (M) Sdn. Bhd. (355261-V) Lot 10, Phase II, Sama Jaya Free Industrial Zone, 93450 Kuching, Malaysia	ISO 9001:2015 Manufacture and Distribute Metal Base Specialty Chemicals for the Electronics and Engineered Coating Industry.
Revestsul Chemical Products Ltda Rua Antonio Rasteiro Filho, 500, Cambe, CEP 86183-751, PR, Brazil	ISO 9001:2015 Production, Commercialization and Technical Assistance of Chemical Specialties for Surface Treatment Processes.
MacDermid Offshore do Brasil Industria de Fluido Ltda Rua Afonso Figueiro, 43, Cambe, PR 86183752, Brazil	ISO 9001:2015 Fluid Manufacturing for Offshore Application.
MacDermid Offshore do Brasil/Anion Rua Eli Valter Cesar, 110 Jardim, Alvorada, 06612-130, Brazil	ISO 9001:2015 Development and Manufacture of Chemicals for Surface Treatment. Manufacturing of Hydraulic Fluids for use in Exploration and Production of Oil and Gas.



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<p>MACDERMID PERFORMANCE SOLUTIONS ESPAÑOLA, S.A Avinguda de la Riera, 36, Sant Just Desvern, 08960 Barcelona, Spain</p>	<p>ISO 9001:2015 The Commercialization of Chemical Products for: a) Metallizing Galvanic Plastics, Coatings and Chemical and Electrochemical Treatments of Metals b) Printed Circuits, Screen Printing Inks and Photo Image Products for the Electronics Industry.</p>
<p>MacDermid Enthone Sp. z o.o. Al. Marszałka J. Piłsudskiego 76, 90-330 Łódź, Poland</p>	<p>ISO 9001:2015 Providing Electroplating Technology, Sale of Chemical Agents for Electroplating Processes and Technical and Technological Service.</p>
<p>MacDermid Alpha Automotive Elisabeth-Selbert-Straße 4, 40764 Langenfeld, Germany</p>	<p>ISO 9001:2015 The Development, Manufacturing, Sales, Supply and Maintenance of Products (Proprietary) for Surface Finishing and Printed Wiring Board Industries.</p>
<p>MacDermid Enthone GmbH Röntgenstraße 4-6, Winkelsweg 184, 40764 Langenfeld, Germany</p>	<p>ISO 9001:2015 The Development, Manufacturing, Sales, Supply and Maintenance of Products (Proprietary) for Surface Finishing and Printed Wiring Board Industries.</p>
<p>MacDermid Alpha Hungary Kft Jedlik Ányos út 2, 2330, Hungary</p>	<p>ISO 9001:2015 The Manufacture & Sales of Laser Cut Stencils for use in the Electronics Industry Assembly Processes.</p>

