



**China National Accreditation Service for Conformity Assessment**  
**LABORATORY ACCREDITATION CERTIFICATE**  
(Registration No. CNAS L3719 )

**MacDermid Technology (Suzhou) Co., Ltd. Industrial  
Solutions Technical Center**

No.23, Longtan Road, Suzhou Industrial Park, Suzhou, Jiangsu, China

*is accredited in accordance with ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories(CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence to undertake the service described in the schedule attached to this certificate.*

*The scope of accreditation is detailed in the attached schedule bearing the same registration number as above. The schedule form an integral part of this certificate.*

Date of Issue: 2017-09-29

Date of Expiry: 2023-09-28

Date of Initial Accreditation: 2008-10-17

Signed on behalf of China National Accreditation Service for Conformity Assessment

China National Accreditation Service for Conformity Assessment(CNAS) is authorized by Certification and Accreditation Administration of the People's Republic of China (CNCA) to operate the national accreditation schemes for conformity assessment. CNAS is a signatory of the International Laboratory Accreditation Cooperation Mutual Recognition Arrangement (ILAC MRA) and the Asia Pacific Laboratory Accreditation Cooperation Mutual Recognition Arrangement (APLAC MRA). The validity of the certificate can be checked on CNAS website at <http://www.cnas.org.cn/english/findanaccreditedbody/index.shtml>

Name: MacDermid Technology (Suzhou) Co., Ltd. Industrial Solutions Technical Center

Address: No.23, Longtan Road, Suzhou Industrial Park, Suzhou, Jiangsu, China

Registration No. CNAS L3719

Effective Date: 2020-01-17      Expiry Date: 2023-09-28

CHINA NATIONAL ACCREDITATION SERVICE FOR CONFORMITY ASSESSMENT

SCHEDULE 1 ACCREDITED KEY LOCATIONS OF THE LABORATORY

Locations Specified	Location Code	Address/Postal Code	Facilities Characteristic	Activity	Note	Effective Date
	A	No.23, Longtan Road, Suzhou Industrial Park, Suzhou, Jiangsu, China/215126	I	(1),(3),(4),(5)		2020-01-17

Note:

- Facilities Characteristics I: Fixed Facilities, II: Out of Fixed Facilities, III: Temporary Facilities, IV: Mobile Facilities, V: Others.
- Activity (1): Testing, (2): Calibration, (3): Issue of Reports/Certificates, (4): Sample Receiving, (5): Contract Review, (6): Others.



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The scope of the accreditation in Chinese remains the definitive version.

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SCHEDULE 2 ACCREDITED SIGNATORIES AND SCOPE

No	Name	Authorized Scope of Signature	Note	Effective Date
1	Anny Huang	All the testing items		2020-01-17
2	Zhang Caimei	All the testing items		2020-01-17



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## SCHEDULE 3 ACCREDITED TESTING SCOPE

№	Test Object	Item/Parameter		Standard or Method	Note	Effective Date
		№	Item/ Parameter			
1	Metallic coating	1	NSS test	Standard Practice for Operating Salt Spray(Fog) Apparatus ASTM B117-18		2020-01-17
				Corrosion tests in artificial atmospheres- Salt spray tests ISO 9227:2017 5.2		2020-01-17
				Corrosion-resistant testing method of the metal deposits and conversion coatings for the light industrial products Neutral Salt spraying test (NSS) QB/T 3826-1999		2020-01-17
		2	CASS test	Standard Test Method for Copper-Accelerated Acetic Acid-Salt Spray (Fog) Testing(CASS Test) ASTM B368-09(2014)		2020-01-17
				Corrosion tests in artificial atmospheres- Salt spray tests ISO 9227:2017 5.4		2020-01-17
				Copper-Accelerated Acetic Acid Salt Spray (CASS) Test GMW14458-May.2016		2020-01-17
				Minimum performance requirements for decorative chromium plated plastic parts GMW14668-Jan.2019 3.4.10		2020-01-17
		3	Coating thickness	Standard test method for measurement of metal and oxide coating thickness by microscopical examination of cross section ASTM		2020-01-17



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№	Test Object	Item/Parameter		Standard or Method	Note	Effective Date
		№	Item/ Parameter			
				B487-85(2013)		
				Metallic and oxide coatings-Measurement of coating thickness-Microscopical method ISO 1463:2003		2020-01-17
				Standard test method for measurement of thickness of metallic coatings by the coulometric method ASTM B504-90 (2017)	Accredited only for Cr coating	2020-01-17
				Metallic coatings-Measurmnt of coating thickness-Coulometric method by anodic dissolution ISO 2177:2003	Accredited only for Cr coating	2020-01-17
				Standard Test Method for Measurement of Coating Thickness by X-Ray Spectrometry ASTM B568-98(2014)	Accredited only for Zn and Zn-Ni coating	2020-01-17
				Minimum performance requirements for decorative chromium plated plastic parts GMW14668-Jan.2019 3.4.2		2020-01-17
		4	Thickness and electrode potential (STEP Test)	Standard Test Method for Simultaneous thickness and electrode potential determination of individual layers in multilayer nickel deposit (STEP Test) ASTM B764-04(2014)		2020-01-17
				Minimum performance requirements for decorative chromium plated plastic parts GMW14668-Jan.2019 3.4.3		2020-01-17
		5	Pore Number/Crack Number (DUBPERNELL TEST)、Number of Active Sites	Standard specification for electrodeposited coating of copper plus nickel plus chromium and nickel plus chromium ASTM B456-17 Appendixes X4、X5		2020-01-17
				Minimum performance requirements for decorative chromium plated plastic parts GMW14668-Jan.2019 3.4.4		2020-01-17
				Standard Specification for Decorative Electroplated Coatings of Copper Plus Nickel Plus Chromium on Plastics ASTM B604-91(2015) Appendixes X4		2020-01-17



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№	Test Object	Item/Parameter		Standard or Method	Note	Effective Date
		№	Item/ Parameter			
		6	Ductility	Standard Practice for Micrometer Bend Test for Ductility of Electrodeposits ASTM B490-09(2014)		2020-01-17
		7	Peel Strength	Standard Test Method for Peel Strength of Metal Electroplated Plastics ASTM B533-85(2013)		2020-01-17
				Minimum performance requirements for decorative chromium plated plastic parts GMW14668- Jan.2019 3.4.5		2020-01-17
		8	Qualitative Adhesion Testing	Standard Practice for Qualitative Adhesion Testing of Metallic Coatings ASTM B571-18		2020-01-17
				Minimum performance requirements for decorative chromium plated plastic parts GMW14668-Jan.2019 3.4.6		2020-01-17
		9	Thermal Cycling	Standard Specification for Decorative Electroplated Coatings of Copper Plus Nickel Plus Chromium on Plastics ASTM B604-91(2015) Annex A1		2020-01-17
		10	Temperature storage	Minimum performance requirements for decorative chromium plated plastic parts GMW14668-Jan.2019 3.4.7		2020-01-17
		11	Quick thermal cycle	Minimum performance requirements for decorative chromium plated plastic parts GMW14668-Jan.2019 3.4.8		2020-01-17
		12	Temperature cycle test	Minimum performance requirements for decorative chromium plated plastic parts GMW14668-Jan.2019 3.4.9		2020-01-17
				Zinc Plating GMW3044-Oct.2017 3.9		2020-01-17
		1	Coefficient of Friction	Fasteners-Torque/clamp force testing ISO 16047:2005/Amd 1:2012	Accredited only for Forces≤100 kN; Torque≤20 0Nm; Test washer type HH	2020-01-17



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