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SCOPE OF ACCREDITATION

CAMBRIDGE MATERIALS TESTING LIMITED 1177 Franklin Blvd. Cambridge, ON N1R 7W4

Accredited Laboratory No. 59 (Conforms with requirements of CAN-P-4E (ISO/IEC 17025:2005))

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CLIENTS SERVED: Commercial any party

FIELDS OF TESTING: Chemical/Physical, Mechanical/Physical, Thermal & Fire

Resistance

ISSUED ON: 2011-03-15

VALID TO: 2013-08-08

ELASTOMERS AND PROTECTIVE AND OTHER COATINGS

Adhesives (Organic Resins) and Glues:

Adhesives

ASTM D1002 Test Method for Apparent Shear Strength of

Single-Lap-Joint Adhesively Bonded Metal Specimens by

Tension Loading

ASTM D1876 Peel Resistance of Adhesives (T-Peel Test)

ASTM D3163 Test Method for Determining the Strength of Adhesively

Bonded Rigid Plastic Lap Shear Joints in Shear by Tensile

Loading

ASTM D3164 Strength Properties of Adhesively Bonded Plastic Lap-Shear

Sandwich Joints in Shear by Tensile Loading

ASTM D3165 Strength Properties of Adhesives in Shear by Tension

Loading of Single-Lap-Joint Laminated Assemblies

ASTM D3167 Test Method for Floating Roller Peel Resistance of

Adhesives

ASTM D3330 Peel Adhesion of Pressure Sensitive Tape at 180° Angle

ASTM D816 Test Methods for Rubber Cements

Only for: Method A, B, C

ASTM D903 Test Method for Peel or Stripping Strength of Adhesive

Bonds

ASTM D904 Exposure of Adhesive Specimens to Artificial Light

FLTM BU 112-02 Peel Adhesion of Pressure Sensitive Tapes

Only for: Method A, B, D, E

GM 9774P Molding and Emblem Adhesion Test Pluck Resistance
GM 9795P Adhesion and Durability of Bonded Weatherstrip - Pressure

Sensitive Tape - 90° Peel Test

GM 9797P Cleavage Peel Test

GM 9832P Odor Acceptability-Can Test

GM 9838P Tape Lamination to Automotive Components

SAE J1525 Lap Shear Test for Automotive-Test Adhesives for Fibre

Reinforced Plastic (FRP) Bonding

Paints; Varnishes; Inks; Coatings; and Allied Products:

Application and Working Properties

Refer to minor sub-heading: Paints and Protective Coatings

Applied Coatings Performance

see also

All Forms, Articles of Metal

Fabrics

AMS-QQ-C-320 Chromium Plating (Electrodeposited); Embrittlement Relief

Test

Only for: Par. 4.5.5

AMS-QQ-P-416 Plating, Cadmium (Electrodeposited)

Only for: Adhesion Par. 4.6.2

Hydrogen Embrittlement Relief Test Par. 4.6.4.1

ASTM A309 Method C Test Method for Weight and Composition of Coating on

Long Terne Sheet by the Triple Spot Test

Only for: Method C

ASTM A428 Test Method for Weight of Coating on Aluminum Coated
Iron or Steel Articles

ASTM A90/A90M Test Method for Weight of Coating on Zinc Coated

(Galvanized) Iron or Steel Articles

ASTM B117 Test Method of Salt Spray (Fog) Testing

ASTM B136 Measurement of Stain Resistance of Anodic Coatings on

Aluminum

ASTM B137 Test Method for Measurement of Coating Mass Per Unit

Area on Anodically Coated Aluminum

ASTM B244 Method for Measurement of Thickness of Anodic Coatings

on Aluminum and of other Non-conductive Coatings on Non-magnetic Base Metals with Eddy-Current Instruments

ASTM B368 Method for Copper-Accelerated Acetic Acid-Salt Spray

(Fog) Testing (CASS Test)

ASTM B380 Standard Method of Corrosion Testing of Decorative

Electrodeposited Coatings by the Corrodkote Procedure

ASTM B456 Standard Specification for Electrodeposited Coatings of

Copper Plus Nickel Plus Chromium and Nickel Plus

Chromium (Dubpernell Test)
Only for: Appendix X4

ASTM B487 Test Method for Measurement of Metal and Oxide Coating

Thickness by Microscopical Examination of a Cross Section

ASTM B499 Test Method for Measurement of Coating Thickness by the

Magnetic Method; Non-magnetic Coatings on Magnetic

Base Metals

ASTM B571 Practice for Qualitative Adhesion Testing of Metallic

Coatings

ASTM B578 Microhardness of Electroplated Coatings

ASTM B680 Seal Quality of Anodic Coatings on Aluminum by Acid

Dissolution

ASTM B700 Electrodeposited Coatings of Silver for Engineering Use

Only for: Embrittlement Relief Test, Para. 8.4

ASTM B767 Guide for Determining Mass Per Unit Area of

Electrodeposited and Related Coatings by Gravimetric and

Other Chemical Analysis Procedures

ASTM C633 Adhesion or Cohesion Strength of Thermal Spray Coatings
ASTM D1186 Test Methods for Non-destructive Measurement of Dry Film

Thickness of Nonmagnetic Coatings Applied to a Ferrous

Base

ASTM D1400 Test Method for Non-destructive Measurement of Dry Film

Thickness of Non-conductive Coatings Applied to a

Non-ferrous Metal Base

ASTM D1654 Test Method for Evaluation of Painted or Coated Specimens

Subjected to Corrosive Environments

ASTM D1735 Practice for Testing Water Resistance of Coatings Using

Water Fog Apparatus

ASTM D2247 Practice for Testing Water Resistance of Coatings in 100%

Relative Humidity

ASTM D2794

	Test Method for Resistance of Organic Coatings to the Effects of Rapid Deformation (Impact)
ASTM D3170	Test Method for Chip Resistance of Coatings
ASTM D3359	Test Methods for Measuring Adhesion by Tape Test
ASTM D3363	Test Method for Film Hardness by Pencil Test
ASTM D4060	Test Method for Abrasion Resistance of Organic Coatings by the Taber Abraser
ASTM D4585	Practice for Testing Water Resistance of Coatings Using Controlled Condensation
ASTM D522	Mandrel Bend Test of Attached Organic Coatings - Cylindrical Mandrel Test Only for: Method B
ASTM D610	Method for Evaluating Degree of Rusting on Painted Steel Surfaces
ASTM D7091	Nondestructive Measurement of Dry Film Thickness of Nonmagnetic Coatings Applied to Ferrous Metals and Nonmagnetic, Nonconductive Coatings Applied to Non-Ferrous Metals
ASTM D714	Test Method for Evaluating Degree of Blistering of Paints
ASTM D822	Practice for Conducting Tests on Paint and Related Coatings and Materials using Filtered Open-Flame Carbon Arc Light and Water Exposure Apparatus
ASTM D870	Testing Water Resistance of Coatings Using Water Immersion
ASTM D968 Method A	Abrasion Resistance of Organic Coatings By Falling Abrasive, Method A - Falling Sand
ASTM E376	Measuring Coating Thickness by Magnetic Field or Eddy Current (Electromagnetic) Test Methods
ASTM F519	Standard Test Method of Mechanical Hydrogen Embrittlement Testing of Plating Processes and Aircraft Maintenance Chemicals
ASTM G152	Practice for Operating Open Flame Carbon Arc Light Apparatus for Exposure of Nonmetallic Materials
ASTM G154	Practice for Operating Fluorescent Light Apparatus for UV Exposure of Nonmetallic Materials
ASTM G155	Practice for Operating Xenon Arc Light Apparatus for Exposure of Non-Metallic Materials
ASTM G26	Practice for Operating Light Exposure Apparatus (Xenon-Arc Type) with and without Water for Exposure of Non-metallic Materials
ASTM G53	Practice for Operating Light and Water Exposure Apparatus (Fluorescent, UV-Condensation Type) for Exposure of

(Fluorescent, UV-Condensation Type) for Exposure of

Non-metallic Materials

FED-STD-141 Abrasion Resistance (Taber Abraser)

Only for: Method 6192

FLTM AQ 101-01 Determination of Phosphate Coating Weights - Chromic

Acid Method

FLTM BI 106-1 Paint Adhesion Test

Standards Council of Canada Accredited Laboratory No. 59 FLTM BI 108-1 **Impact Test for Painted Panels** FLTM BN 108-02 Resistance to Abrasion-Taber Abraser FLTM BO 101-1 Resistance to Artificial Weathering FLTM BQ 007-02 Acid Dissolution Test Decorative Aluminum Parts FLTM BO 104-02 **Humidity Resistance Testing** Copper-Accelerated Acetic Acid Salt Spray Testing (CASS FLTM BQ 105-1 Test) Seat Belt Assemblies **FMVSS 209** Only for: Hardware; Corrosion Resistance, Sec. S5.2(a) GM 3661P Determination of Hydrogen Embrittlement by Static Loading GM 4260P Measuring Thickness of Electrodeposits and Anodic Coatings Only for: Methods 1, 3, 5 &8 GM 4298P Salt Spray (Mist) Testing GM 4350M Paint Finishes Only for: Testing covers GM 4298P, GM 4465P, GM 9071P, GM 9102P, GM 9507P, GM 9506P, GM 9508P, GM 9509P **Humidity Test** GM 4465P GM 4476P CASS Test, Copper-Accelerated Acetic Acid Salt Spray Test GM 9069P Test for Resistance to Hydrogen Sulfide Staining GM 9071P Tape Adhesion Test for Paint Finishes GM 9102P Corrosion Creepback Test Method GM 9125P Procedures for Laboratory Accelerated Exposure of Automotive Materials GM 9500P Gasoline Puddle Test GM 9501P Gasoline Dip Test GM 9502P Knife Cross-Hatch Adhesive Test GM 9503P Evaluating Brittleness of Painted Plastics and Sealants by Means of a Mandrel GM 9504P Oven Aging Test for Painted Plastics Substrates GM 9505P Automotive Environmental Cycles GM 9506P Dime Scrape Test to Determine Paint Adhesion and **Brittleness** Thumbnail Hardness Test for Painted Parts GM 9507P GM 9508P Chip Resistance of Coating GM 9509P Solvent Rub Method for Determining Cure of Painted Metal or Plastic Substrates GM 9511P Scab Corrosion Creepback of Paint Systems on Metal Substrate GM 9514P **Hot Water Immersion Testing** GM 9515P Abrasion Resistance of Organic Coatings (Taber Abraser Method) GM 9517P Resistance of Synthetic Perspiration GM 9518P Paint Thickness of Painted Flexible Plastic Parts

Wear Resistance of Hot Stamps and Related Products by the

The approved and most recent version of this document can be viewed on the SCC website at http://palcan.scc.ca/SpecsSearch/GLSearchForm.do

GM 9542P

GM 9696P CAN Test for Staining of Paint or Plastics

GM 9733P Determination of Coating Weight on Phosphated Panels

GM 9736P Sulfur Dioxide Spot Test

GM 9770P Weatherstrip Coating Cure Test

Only for: Method A, B, C

GM 9891P Co-efficient of Friction

GM 9900P Cleaning/Solvent Resistance of Automotive Components
GME 60206 Determination of Resistance to Corrosion of Automotive

Components by Salt Spray Fog Testing

GMI 60264 Determination of Resistance to Sulfide Staining of

Automotive Trim Components

GMW 14124 Automotive Environmental Cycles

Except for: Cycle T

GMW 14864 Procedure for Determining the Staining of Trim Components

Due to Sulfur Dioxide, SO2, and Hydrogen Sulfide, H2S

GMW 15288 Scab Corrosion Creepback of Paint Systems on Metal

Substrates

GMW 3286 Procedure for Neutral Salt Spray Test

ISO 10289 Methods for corrosion testing of metallic and other inorganic

coatings on metallic substrates - Rating of test specimens and manufactured articles subjected to corrosion tests.

ISO 1463 Metallic and Oxide Coatings - Measurement of Coating

Thickness Microscopic Method

ISO 2106 Anodizing of Aluminum and its Alloys-Determination of

Mass per Unit Area (Surface Density) of Anodic Oxide

Coatings-Gravimetric Method

ISO 2808 Paints and Varnishes - Determination of Film Thickness

Only for: Methods 5A, 6, 7

ISO 3210 Anodizing of Aluminum and its Alloys-Assessment of

Quality of Sealed Anodic Oxide Coatings by Measurement of the Loss of Mass after Immersion in Phosphoric-Chromic

Acid Solution

ISO 9227 Corrosion Tests in Artificial Atmospheres-Salt Spray Tests

MIL-C-13924 Coating, Oxide, Black, for Ferrous Metals: Embrittlement

Relief Test

Only for: Par. 4.4.4

NES M0140 Salt Spray Testing

SAE J1767 Instrumental Colour Difference Measurements for

Colorfastness of Automotive Interior Trim Materials

SAE J1885 Accelerated Exposure of Automotive Interior Trim

Components Using a Controlled Irradiance Water Cooled

Xenon Arc Apparatus

SAE J1960 Accelerated Exposure of Automotive Exterior Materials

Using a Controlled Irradiance Water Cooled Xenon Arc

Apparatus

SAE J207 Electroplating of Nickel and Chromium on Metal Parts

Automotive Ornamentation and Hardware

Only for: Appendix B

Standards Council of Canada Accredited Laboratory No. 59

SAE J2334 Cosmetic Corrosion Lab Test

SAE J2412 Accelerated Exposure of Automotive Interior Trim

Components Using a Controlled Irradiance Xenon-Arc

Apparatus

SAE J2527 Performance Based Standards for Accelerated Exposure of

Automotive Exterior Materials Using a Controlled Irradiance

Xenon-Arc Apparatus

SAE J400 Test for Chip Resistance of Surface Coatings

Colour and Appearance

see also

Fabrics

Applied Coatings Performance

ASTM D2244 Test Method for Calculation of Colour Differences from

Instrumentally Measured Colour Co-ordinates

ASTM D523 Test Method for Specular Gloss

ASTM E1164 Standard Practice for Obtaining Spectrophotometric Data for

Object-Color Evaluation

ASTM E1347 Colour and Colour-Difference Measurement by Tristimulus

(Filter) Colorimetry

CLP-463PB-31-01 Resistance of Paint Films to Various Fluids
FLTM BI 110-1 Measurement of the Gloss of Paint Panels
FLTM BI 113-03 Resistance to Synthetic Perspiration Staining
FLTM BI 113-07 Resistance to Synthetic Perspiration Staining

GM 9741P Instrumented Colour Measurement

SAE J1545 Instrumental Colour Difference Measurement for Exterior

Finishes, Textiles and Coloured Trim

Paints and Protective Coatings

ASTM D2369 Test Methods for Volatile Content of Coatings

Plastics; Resins and Rubbers:

Plastics

see also

Fabrics

Resins and Rubbers

Colour and Appearance

Construction Materials

Applied Coatings Performance

ASTM D1003	Standard Test Method for Haze and Luminous Transmittance of Transparent Plastics Only for: Appendix X2
ASTM D1004	Test Methods for Initial Tear Resistance of Plastic Film and Sheeting
ASTM D1238	Test Method for Flow Rates of Thermoplastics by Extrusion Plastometer Only for: Method A
ASTM D1499	Practice for Operating Light and Water Exposure Apparatus (Carbon Arc Type) for Exposure of Plastics
ASTM D1525	Test Method for Vicat Softening Temperature of Plastics
ASTM D1693	Environmental Stress Cracking
ASTM D1790	Test Method for Brittleness Temperature of Plastic Film by Impact
ASTM D1822	Test Method for Tensile-Impact Energy to Break Plastic and Electrical Insulating Materials
ASTM D1894	Test Method for Static and Kinetic Coefficients of Friction of Plastic Film and Sheeting
ASTM D2457	Test Method for Specular Gloss of Plastic Film and Solid Plastics
ASTM D256	Determining the Pendulum Impact Resistance of Notched Specimens of Plastic Only for: Methods A and E
ASTM D2565	Practice for Operating Xenon-Arc Type Light Exposure Apparatus, with and without water for Exposure of Plastics
ASTM D2584	Test Method for Ignition Loss of Cured Reinforced Resins
ASTM D3950	Standard Specification for Strapping, Non-metallic (and Joining Methods)
ASTM D4226	Test Methods for Impact Resistance of Rigid Polyvinylchloride (PVC) Building Products
ASTM D4329	Practice for Fluorescent UV Exposure of Plastics
ASTM D4459	Practice for Operating an Accelerated Light fastness Xenon-Arc Type (water cooled) Light-Exposure Apparatus for the Exposure of Plastics for Indoor Applications
ASTM D4812	Un-notched Cantilever Beam Impact Resistance of Plastics
ASTM D5420	Test Method for Impact Resistance of Flat Rigid Plastic Specimen by Means of a Striker Impacted by a Falling Weight (Gardner Impact)
ASTM D570	Test Method for Water Absorption of Plastics
ASTM D6110	Test method for determining the Charpy Impact Resistance of Notched Specimens of Plastics
ASTM D618	Standard Practice for Conditioning Plastics for Testing

Standards Council of Canada Accredited Laboratory	NO. 59
ASTM D635	Rate of Burning and/or Extent and Time of Burning of Self-Supporting Plastics in a Horizontal Position
ASTM D638	Test Method for Tensile Properties of Plastics
ASTM D648	Test Method for Deflection Temperature of Plastics Under Flexural Load
ASTM D695	Test Method for Compressive Properties of Rigid Plastics
ASTM D696	Test Method for Coefficient of Linear Thermal Expansion of Plastics
ASTM D732	Shear Strength of Plastics by Punch Tool
ASTM D746	Test Method for Brittleness Temperature of Plastics and Elastomers by Impact
ASTM D785	Test Method for Rockwell Hardness of Plastics and Electrical Insulating Materials
ASTM D790	Test Methods for Flexural Properties of Un-reinforced and Reinforced Plastics and Electrical Insulating Materials
ASTM D792	Test Method for Specific Gravity (Relative Density) and Density of Plastics by Displacement
ASTM D882	Test Methods for Tensile Properties of Thin Plastic Sheeting
ASTM F2231	Charpy Impact Test on Thin Specimens of Polyethylene Used in Pressurized Pipes
CLP-463LB-12-01	Resistance to Humidity Hot and Cold Cycling of Trim Materials
FLTM BN 24-2	Flammability Test for Automotive Interior Materials
FLTM BO 115-01	Plastics - Resistance to Artificial Weathering
FMVSS 302	Flammability of Interior Polymeric Materials, Horizontal Test Method
GM 9032P	Test for Determining Impact Strength of Plastics
GM 9033P	Colourfastness to Crocking (Rubbing)
GM 9070P	Procedure for Testing Flammability of Materials
GM 9077P	Test for Glass Content of Glass Reinforced Plastics
GM 9126P	Test for Cleanability of Textiles and Plastics
GM 9128P	Mildew Growth
GM 9131P	Colour Change Due to Temperature and Humidity
GM 9133P	Resistance to Water Spotting, Finish Disturbance, Salt Staining, and Discolouration
GM 9141P	Compatibility of Vinyl Materials and Leather
GM 9143P	Crazing of Vinyl Trim Materials
GM 9150P	Resistance to Marring or Scuffing
GM 9160P	Top Coat Adhesion of Vinyls
GM 9200P	Accelerated Aging
GM 9300P	Impact Test for Plastic Materials
GM 9302P	Test for Stress Mark Susceptibility of Plastic Materials
GM 9305P	Determination of Fogging Characteristics of Automotive Interior Trim Materials
GM 9306P	Ash Content of Plastic Materials
GM 9452P	Test for Dimensional Stability
GM 9773P	Cold Slam Test

Standards Council of Canada Accredited Laboratory No. 59 Test Method for Determining the Resistance to Odour GME 60276 **Propagation of Trim Materials** GMI 60266 Determination of Resistance to Cleaning Agents of **Automotive Trim Components** GMI 60267 Determination of Impact Resistance of Plastic Components Falling Ball Testing Device Only for: Apparatus A GMW 14093 Determination of Impact Resistance of Plastic Components Except for: Method B GMW 14334 Chemical Resistance to Fluids **GMW 3205** Test Method for Determining the Resistance to Odour **Propagation of Interior Materials GMW 3232** Test Method for Determining the Flammability of Interior **Trim Materials GMW 3235** Fogging Characteristics of Trim Materials ISO 1133 Plastics-Determination of the Melt Mass-Flow Rate (MFR) and the Melt Volume-Flow Rate (MVR) of Thermoplastics ISO 1183-1 Plastics-Methods for Determining the Density of Non-Cellular Plastics Only for: Method A **ISO 178** Plastics-Determination of Flexural Properties ISO 179 Plastics-Determination of Charpy Impact Strength ISO 180 Plastics-Determination of Izod Impact Strength ISO 291 Plastics-Standard Atmospheres for Conditioning and Testing **ISO 306** Plastics-Thermoplastic Materials-Determination of Vicat Softening Temperature (VST) ISO 3451-1 Plastics - Determination of Ash Road Vehicles and Tractors and Machinery for Agriculture ISO 3795 and Forestry-Determination of Burning Behavior of Interior Materials ISO 527 Plastics-Determination of Tensile Properties Only for: Part 1 &2 ISO 604 Plastics Determination of Compressive Properties ISO 62 Plastics-Determination of Water Absorption **ISO 75** Plastics-Determination of Temperature of Deflection Under Load Only for: Part 1 &2 ISO 974 Plastics-Determination of the Brittleness Temperature by **SAE J1756** Test Procedure to Determine the Fogging Characteristics of **Interior Automotive Materials** Flammability of Polymeric Interior Materials-Horizontal **SAE J369**

TSM 0500G Flammability Test Method for Interior Non-Metallic

Test Method

Materials

Resins and Rubbers

Applied Coatings Performance

Plastics

ASTM D1056	Specification for Flexible Cellular Materials
ASTM D1229	Test Method for Rubber Property - Compression Set at Low Temperature
ASTM D1414	Test Methods for Rubber O-Rings
ASTM D2137	Test Methods for Rubber Property-Brittleness Point of Flexible Polymers
ASTM D2240	Test Method for Rubber Property - Durometer Hardness
ASTM D3574	Test Methods for Flexible Cellular Materials - Slab, Bonded, and Molded Urethane Foams
	Only for: Tests A, B1, B2, C, D, E, F, K
ASTM D395	Test Methods for Rubber Property - Compression Set
ASTM D412	Test Methods for Vulcanized Rubber and Thermoplastic Rubbers Thermoplastic Elastomers Tension
ASTM D413	Test Methods for Rubber Property-Adhesion to Flexible Substrate (Machine Method)
ASTM D429	Test Methods for Rubber Property-Adhesion to Rigid Substrates
	Only for: Method A
ASTM D573	Test Method for Rubber Deterioration in an Air Oven
ASTM D575	Rubber Properties in Compression
ASTM D624	Test Method for Tear Strength of Conventional Vulcanized Rubber and Thermoplastic Elastomer
ASTM D750	Test Method for Rubber Deterioration in Carbon Arc or Weathering Apparatus
ASTM D925	Rubber Property - Contact Staining of Surfaces Only for: Method A
ISO 188	Rubber Vulcanized-Accelerated Aging or Heat Resistance Tests
	Only for: Section 3
ISO 815	Rubber, Vulcanized or Thermoplastic-Determination of Compression Set at Ambient, Elevated or Low Temperatures

METALLIC ORES AND PRODUCTS

Articles of Metal:

All Forms, Articles of Metal

AASHTO T244 Standard Method of Test for Mechanical Testing of Steel

Products

Only for: Section 18 and Supplement 3

Standard Specification for Rockwell Hardness and Rockwell **AASHTO T80** Superficial Hardness of Metallic Materials AMS 2315 Determination of Delta Ferrite Content **AMS 2485** Coating, Black Oxide Only for: Surface and Intergranular Attack, Para. 3.3.4 AMS 2643 Structural Examination of Titanium Alloys Chemical Etch **Inspection Procedure ASTM A247** Test Method for Evaluating the Microstructure of Graphite in Iron Castings ASTM A255 End Quench Hardenability (Jominy Test) ASTM A262 Practices for Detecting Susceptibility to Intergranular Attack in Austenitic Stainless Steels **ASTM A370** Test Methods and Definitions for Mechanical Testing of **Steel Products ASTM A380** Practice for Cleaning, Descaling and Passivation of Stainless Steel Parts, Equipment and Systems ASTM A561 Macroetch Testing of Tool Steel Bars ASTM A604 Macroetch Testing of Consumable Electrode Remelted Steel Bars and Billets **ASTM A799** Standard Practice for Steel Castings, Stainless, and Instrument Calibration for Estimating Ferrite Content **ASTM A800** Steel Casting, Austenitic Alloy, Estimating Ferrite Content Thereof, Determinations from Magnetic Response **ASTM A923** Detecting Detrimental Intermetallic Phase in Duplex Austenitic/Ferritic Stainless Steels Method of Tension Testing Wrought and Cast Aluminum **ASTM B557** and Magnesium Alloy Products Test Method for Brinell Hardness of Metallic Materials ASTM E10 Test Method for Determination of Carbon, Sulphur, Nitrogen **ASTM E1019** and Oxygen in Steel and in Iron, Nickel and Cobalt Alloys Test Methods for Estimating the Depth of Carburization of **ASTM E1077 Steel Specimens** ASTM E1097 CMTL Modified Guide for Direct Current Plasma Emission Spectrometry Analysis (Modified for ICP Argon Optical Emission Spectrometry) **ASTM E111** Test Method for Young s Modulus, Tangent Modulus and Chord Modulus **ASTM E112** Test Methods for Determining the Average Grain Size **ASTM E1180** Standard Practice for Preparing Sulfur Prints for Macrostructural Examination **ASTM E1181** Test Methods for Characterizing Duplex Grain Sizes **ASTM E1245** Standard Practice for Determining the Inclusion or Second Phase Constituent Content of Metals by Automatic Image **Analysis ASTM E1268** Standard Practice for Assessing the Degree of Banding or Orientation of Microstructures Analysis **ASTM E1382** Test Methods for Determining Average Grain Size Using

Semiautomatic and Automatic Image Analysis

ASTM E139 Practice for Conducting Stress Rupture Tests of Metallic

Materials

ASTM E140 Standard Hardness Conversion Tables for Metals

Relationship Among Brinell Hardness, Vickers Hardness, Rockwell Hardness, Superficial Hardness, Knoop Hardness

and Scleroscope Hardness

ASTM E1409 Determination of Oxygen and Nitrogen in Titanium and

Titanium Alloys by the Inert Gas Fusion Technique

ASTM E1447 Determination of Hydrogen in Titanium and Titanium

Alloys by the Inert Gas Fusion Thermal Conductivity/Infrared Detection Method

ASTM E1447 Applied to Steel Determination of Hydrogen in Titanium and Titanium

Alloys by the Inert Gas Fusion Thermal Conductivity/Infrared Detection Method

ASTM E1479 Practice for Describing and Specifying Inductively-Coupled

Plasma Optical Emission Spectrometers

ASTM E18 Test Methods for Rockwell Hardness and Rockwell

Superficial Hardness of Metallic Materials

ASTM E209 Practice for Compression Tests of Metallic Materials at

Elevated Temperatures with Conventional or Rapid Heating

Rates and Strain Rates

ASTM E21 Elevated Temperature Tension Tests of Metallic Materials
ASTM E23 Test Methods for Notched Bar Impact Testing of Metallic

Materials

ASTM E290 Test Method for Semi-Guided Bend Test for Ductility of

Metallic Materials

ASTM E292 Practice for Conducting Time-for-Rupture Notch Tension

Tests of Materials

ASTM E3 Standard Practice for Preparation of Metallographic

Specimens

ASTM E340 Method for Macroetching Metals and Alloys ASTM E345 Test Methods of Tension Testing of Metallic Foil

ASTM E381 Method of Macroetch Testing, Inspection and Rating Steel

Products, Comprising Bars, Billets, Blooms and Forgings

ASTM E384 Test Method for Microhardness of Materials

Only for: 50g to 1000g load

ASTM E407 Methods for Microetching Metals and Alloys

ASTM E45 Practice for Determining the Inclusion Content of Steel
ASTM E517 Test Method for Plastic Strain Ratio r for Sheet Metal
ASTM E562 Practice for Determining Volume Fraction by Systematic

Manual Point Count

ASTM E646 Test Method for Tensile Strain Hardening Exponents

(n-Values) of Metallic Sheet Materials

ASTM E768 Standard Practice for Preparing and Evaluating Specimens

for Automatic Inclusion Assessment of Steel

ASTM E8 Test Methods for Tension Testing of Metallic Materials
ASTM E883 Standard Guide for Reflected-Light Photomicrography

ASTM E9

Test Methods of Compression Testing of Metallic Materia	of Metallic Material	IV	ot I	ot	Testing	pression	Con	ot 1	ethods	Test Met	
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at Room Temperature

ASTM E92 Test Method for Vickers Hardness of Metallic Materials

Only for: 1kg to 10kg load

ASTM E930 Test Methods for Estimating the Largest Grain Observed in a

Metallographic Section (ALA Grain Size)

ASTM G28 Test Methods of Detecting Susceptibility to Intergranular

Corrosion in Wrought, Nickel Rich, Chromium-Bearing

Alloys

ASTM G31 Practice for Laboratory Immersion Corrosion Testing of

Metals

ASTM G34 Exfoliation Corrosion Susceptibility in 2XXX and 7XXX

Series Aluminum Alloys (EXCO Test)

ASTM G46 Examination and Evaluation of Pitting Corrosion

ASTM G48 Pitting and Crevice Corrosion Resistance of Stainless Steels

and Related Alloys by Use of Ferric Chloride Solution

Chrysler PS-9500 Process Standard for Hydrogen Embrittlement Relief

FED TM STD No. 151 Metals: Test Methods

GMW 3335 Metallic Sheet, Mechanical Properties Testing

ISO 10113 Metallic Materials - Sheet and Strip - Determination of

Plastic Strain Ratio

ISO 10275 Metallic Materials - Sheet and Strip - Determination of

Tensile Strain Hardening Exponent

ISO 148-1 Charpy Pendulum Impact Test - Test Method

ISO 3274 Geometrical Product Specifications (GPS) - Surface Texture:

Profile Method - Nominal Characteristics of Contact (Stylus)

Instruments

ISO 4287 Geometrical Product Specifications (GPS) - Surface Texture:

Profile Method - Terms, Definitions and Surface Texture

Parameters

ISO 643 Steels-Micrographic Determination of the Ferritic or

Austenitic Grain Size

ISO 6507 Part 1 Metallic Materials - Vickers Hardness Test ISO 6508 Part 1 Metallic Materials - Rockwell Hardness Test

ISO 6892 Metallic Materials-Tensile Testing at Ambient Temperature

SAE J121 Decarburization in Hardened and Tempered Unified

Threaded Fasteners

SAE J121M Decarburization in Hardened and Tempered Metric

Threaded Fasteners

SAE J406 Methods of Determining Hardenability of Steels

SAE J417 Hardness Tests & Hardness Number Conversion (Vickers,

Brinell, &Rockwell Tests)

SAE J419 Methods of Measuring Decarburization

SAE J422 Microscopic Determination of Inclusions in Steel

SAE J423 Methods of Measuring Case Depth

SAE J911 Surface Texture Measurement of Cold Rolled Sheet Steel

Welded

ANSI/AWS B4.0 Standard Methods for Mechanical Testing of Welds

ASME Boiler & Pressure Vessel Material Specifications-Welding Rods, Electrodes and Filler

Code Section II, Part C Metals

ASME Boiler & Pressure Vessel

Code Section IX

GM 4491M

Welding and Brazing Qualifications

ASTM E190 Test Method for Guided Bend Test for Ductility of Welds CAN/CSA W48-01 Filler Metals and Allied Materials for Metal Arc Welding

Chrysler PS-9471 Resistance Spot Welding Automotive Components

Chrysler PS-9472 Arc Welding Automotive Components

CSA-Z662 Oil and Gas Pipeline Systems GM 4460P Weldments - Test Methods

Only for:
Deep Etch
Guided Bends

Shear Test for Fillet Welds

Nick Break Test

Fillet Weld - Size and Contour Evaluation Arc Spot, Plug and Slot Welding Specification

GM 6122M Automotive Arc Welding Specification

GMW 14058 Weld Acceptance Criteria and Repair Procedures for Arc

Welds and Arc Brazes - Steel

ISO 5817 Welding Fusion-Welded Joints in Steel, Nickel, Titanium

and Their Alloys (Beam Welding Excluded) Quality

Levels for Imperfections

Semi-Fabricated Products: (Extrusion, rolled sections)

CAN/CSA-G40.20 General Requirements for Rolled or Welded Structural

Quality Steel

CAN/CSA-G40.21 Structural Quality Steels

Tools, Fasteners and Hardware:

see also

All Forms, Articles of Metal

ASTM A489 Specification for Carbon Steel Lifting Eyes

ASTM A574 Specification for Alloy Steel Socket-Head Cap Screws

ASTM F541 Specification for Alloy Steel Eyebolts

ASTM F606 Method for Conducting Tests to Determine the Mechanical

Properties of Externally and Internally Threaded Fasteners,

Washers, and Rivets

ASTM F606M Test Method for Determining Mechanical Properties of

Externally and Internally Threaded Fasteners, Washers and

Rivets

ASTM F788/F788M Specification for Surface Discontinuities of Bolts, Screws,

and Studs, Inch and Metric Series

Standards Council of Canada Accredited Laboratory No. 59

ASTM F812/F812M Specification for Surface Discontinuities of Nuts, Inch and

Metric Series

ASTM F835 Specification for Alloy Steel Socket Button and Flat

Countersunk Head Cap Screws

GM 255M; GM 260M, GM

275M, GM 280M, GM 290 M,

Mechanical and Quality Requirements for Externally

Threaded Fasteners

GM 284M, GM 286M, GM

GM 300M, GM455M

GM 500M

301M, GM 305M, GM 456M

Metallurgical Requirements for Steel Nuts

Mechanical and Material Requirements for Metric

Externally Threaded Fasteners

GM 510M Mechanical and Metallurgical Requirements for Metric

Series Steel Nuts

ISO 898 Part 1 Mechanical Properties of Fasteners

NAM 1312-108 Fastener Test Methods,

Metric: Method 108 - Tensile Strength

NASM 1312 Fastener Test methods

Only for: Methods 1, 3, 5, 6, 8, 9, 10, 12, 18

SAE J1061 Surface Discontinuities on General Application Bolts,

Screws, and Studs

SAE J1199 Mechanical and Material Requirements for Metric

Externally Threaded Steel Fasteners

SAE J122 Surface Discontinuities on Nuts

SAE J123 Surface Discontinuities on Bolts, Screws, and Studs in

Fatigue Applications

SAE J238 Nut and Conical Spring Washer Assemblies

SAE J429 Mechanical and Material Requirements for Externally

Threaded Fasteners

SAE J430 Mechanical and Chemical Requirements for Non-Threaded

Fasteners

SAE J773 Conical Spring Washers

SAE J995 Mechanical and Material Requirements for Steel Nuts

(Fasteners and Fastener Materials

see also:

Applied Coatings Performance All Forms, Articles of Metal Tools, Fasteners, and Hardware)

TEXTILES AND FIBROUS MATERIALS

Other

(Leather

see also: Plastics)

CLP 463KC-21-01 Perspiration Resistance
GM 9240P Perspiration Resistance

Textile Mill Products: (Including synthetic and natural fibres)

Fabrics

See also:

Applied Coatings Performance Colour and Appearance

Plastics

AATCC EP1 Grey Scale for Colour Change

AATCC EP2 Grey Scale for Staining

AATCC EP8 9 Step Chromatic Transference Scale

AATCC TM8 Colourfastness to Crocking: AATCC Crockmeter Method

ASTM D1117 Standard Methods of Testing Non-woven Fabrics

Only for: Trapezoid Tear Strength

ASTM D3884 Standard Test Method for Abrasion Resistance of Textile

Fabrics (Rotary Platform, Double Head Method)

ASTM D5034 Standard Test Method for Breaking Strength and Elongation

of Textile Fabrics (Grab Test)

ASTM D5035 Standard Test Method for Breaking Force and Elongation of

Textile Fabrics (Strip Method)

ASTM D5587 Tearing Strength of Fabrics by Trapezoid Procedure

ASTM D5733 Test Procedure for Tearing Strength of Nonwoven Fabrics

by the Trapezoid Procedure

CLP-463KB-12-01 Weatherometer Test of Automotive Type Trim Materials

CLP-463KB-2-01 Breaking Strength and Elongation Testing of Soft Trim

Materials

CLP-463KB-21-01 Wear Resistance of Trim Materials - Taber Method CLP-463KC-13-01 Flammability of Automotive Interior Trim Materials -

Fabrics

FLTM AN 101-1 Resistance of Textiles to Bleeding, Perspiration and Water

Spotting

FLTM BN 107-01 Crocking Test

FLTM BN 18-1 Wicking Test - Textile Materials

Only for: Method 1c

GM 9130P Test for Resistance to Odour of Textiles

ISO 105 Part A02 Textiles-Test for Colour Fastness (Grey Scale for Assessing

Change in Colour)

SAE J1351 Hot Odour Test for Insulation Materials

SAE J861 Method of Testing Resistance to Crocking of Organic Trim

Materials

SAE J913 Test Method for Wicking of Automotive Fabrics and Fibrous

Materials

Only for: Method C

WOOD PRODUCTS

(AND PLASTIC LUMBER)

Construction Materials: (Including for Furniture)

ASTM D1037 Base Fiber and Particle Panel Materials (Hardness Test;

Water Absorption and Thickness Swelling Test)

Only for: Section 68-73 & 100-107

ASTM D143 Standard Methods of Testing Small Clear Specimens of

Timber - Hardness Only for: Section 13

ASTM D2394 Standard Methods for Simulated Service Testing of Wood

and Wood-Base Finish Flooring (Coefficient of Friction)

Only for: Section 33-37

ASTM D6109 Test Methods for Flexural Properties of Unreinforced and

Reinforced Plastic Lumber

ASTM D6111 Test Method for Bulk Density and Specific Gravity of

Plastic Lumber and Shapes by Displacement

ASTM D6341 Test Method for Determination of the Linear Coefficient of

Thermal Expansion of Plastic Lumber and Plastic Lumber

Shapes Between -30 and 140°F (-34.4 and 60°C)

ASTM D6662 Polyolefin-Based Plastic Lumber Decking Boards
ASTM D7032 Establishing Performance Ratings for Wood-Plastic

Composite Deck Boards and Guardrail Systems (Guards or

Handrails)

Except for: Biodetermination Tests and Fire Performance

Tests

ASTM E935 Standard Test Methods for Performance of Permanent Metal

Railing Systems and Rails for Buildings

ICC-ES AC174 ICC Evaluation Services, Inc. - Acceptance Criteria for Deck

Board Span Ratings and Guardrail Systems (Guards and

Handrails)

Except for: Sec. 3.9 - Termite and Decay and Sec. 3.10

Flame Spread

Fasteners and Hardware: (See Construction)

ASTM D1761 Standard Test Methods for Mechanical Fasteners in Wood

(Withdrawal Test; Lateral Resistance Test)

Only for: Section 1-11 &12-18

ASTM D6117 Standard Test Methods for Mechanical Fasteners in Plastic

Standards Council of Canada Accredited Laboratory No. 59

Lumber and Shapes (Withdrawal Test; Lateral Resistance

Test)

Only for: Method A &B

ASTM E894 Standard Test Method for Anchorage of Permanent Metal

Railing Systems and Rails for Buildings

Notes:

CAN-P-4E (ISO/IEC 17025:2005): General Requirements for the Competence of Testing and Calibration Laboratories (ISO/IEC 17025: 2005)

S. Cross, Director, Conformity Assessment

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