


A LEADING MATERIALS TESTING PARTNER YOU CAN TRUST
OVERVIEW

Recognized internationally for excellence, the New Berlin materials testing laboratory has served industry since 1978. Our engineers are trained to work with both traditional and new materials, and hold special expertise in polymers, elastomer, and additive manufactured materials; as well as ferrous and nonferrous metals. A2LA accredited to ISO/IEC 17025 and holding numerous quality approvals, this facility is uniquely qualified to evaluate products and materials critical to a wide range of industries, including oil & gas, chemical, automotive, medical, insurance and litigation, and commercial manufacturing.

OUR SERVICES

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| ABRASION & WEAR TESTING | FRAC TOGRAPHY SERVICES | POLYMER TESTING & ANALYSIS |
| ACCELERATED WEATHERING TESTING | HARDNESS TESTING | POSITIVE MATERIAL IDENTIFICATION (ON AND OFFSITE) |
| CERTIFIED WELD INSPECTION (CWI) | HUMIDITY TESTING | PRODUCT QUALIFICATION TESTING |
| CHEMICAL ANALYSIS & TESTING | HYDRAULICS/PNEUMATICS TESTING | RESIDUE AND DEBRIS ANALYSIS |
| COMPACT TENSION AND BENDING FRACTURE MECHANICS TESTS | IMPACT TESTING | ROHS CERTIFICATION |
| CORROSION ANALYSIS | INVESTIGATIVE CHEMISTRY | RUBBER & ELASTOMERS TESTING |
| CPSIA TESTING | MATERIAL PROPERTIES TESTING | SALT FOG AND SALT SPRAY EXPOSURE |
| DAIRY 3A SANITARY STANDARD | MATERIAL SELECTION | STRESS RUPTURE & CREEP TESTING |
| DYNAMIC MECHANICAL ANALYSIS | PRODUCT QUALIFICATION TESTING | STRESS-STRAIN ANALYSIS |
| EXPERT WITNESS SERVICES | METALLOGRAPHY & MICROSCOPY | TENSILE TESTING |
| FAILURE ANALYSIS OF METALS AND POLYMERS | METALLURGICAL ANALYSIS | UV WEATHERING TESTING |
| FATIGUE TESTING (STRAIN AND LOAD) | METALS & ALLOYS TESTING | |
| FINITE ELEMENT ANALYSIS (FEA) | OFF-SITE STAFFING | |
| | PAINTS & COATINGS ANALYSIS | |

OUR EQUIPMENT

ANALYTICAL

Carbon / Sulfur Analyzer

Differential Scanning Calorimeter (DSC)

Dynamic Mechanical Analyzer (DMA)

Fourier Transform Infrared Spectroscopy (FTIR)

Inductively Coupled Plasma Emission Spectrometer (ICP)

Melt Flow Analyzer

Optical Emission Spectrometer (OES)

Portable XRF Analyzer

Scanning Electron Microscope (SEM) with EDS

Thermogravimetric Analyzer (TGA)

Thermomechanical Analyzer (TMA)

Vapor Pro - Moisture Analyzer

MECHANICAL

Charpy Impact Tester

Drop Weight Style Impact Tester

Free Standing Hydraulic Actuators From 2 kips To 35 kips (Single & Multiple Channel Setups)

Gravelometer

Izod Pendulum Impact tester

Multiaxial Impact Tester

Paint Impact / Adhesion Tester

Rotary Actuator With Capacity Of 45,000 in-lbs.

Static Frames From 60 kips To 120 kips

Dynamic Frames From 2 kips To 55 kips

Taber Abraser

ENVIRONMENTAL

Cyclic Corrosion Chambers

Environmental Chambers Capable of 100° To 600°F

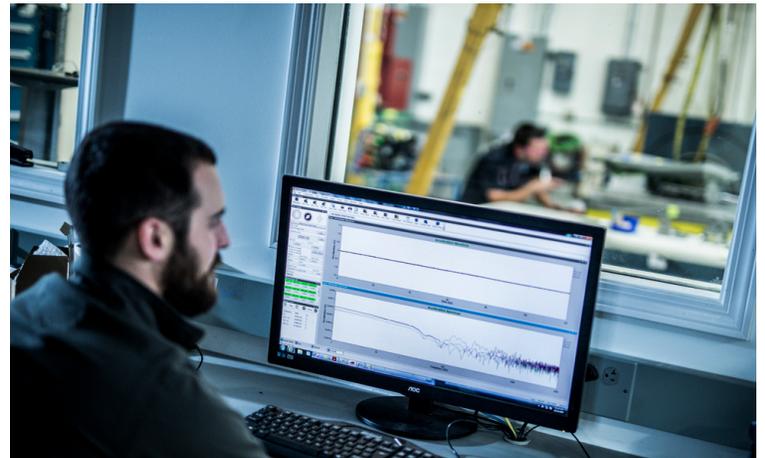
High Temperature Furnace Capable of 1500°F

Ransco Thermal Shock Chamber

Salt Spray Chambers

UV Accelerated Weathering Chambers

Xenon Arc Accelerated Weathering Chambers



For a comprehensive list of our services, accreditations & approvals, please visit element.com

FAILURE ANALYSIS | MATERIAL & PRODUCT TESTING | CWI SERVICES | ACCELERATED WEATHERING | EXPERT WITNESS



GLOBAL LEADERS IN TESTING, INSPECTION & CERTIFICATION

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