

1 Million Lb Capacity



Cryogenic to 2400°F

**Extensive Scope** 

## Do You Need To...

- · Gain regulatory approval?
- · Improve product performance?
- · Verify engineering specifications?
- Determine material characterization?
- · Identify material failures?
- Outsource Quality Assurance or Quality Control?

## **Services**

- Charpy, IZOD
- Dynamic Tear
- Various Atmospheres
- Subsize Specimens
- Automatic Job Status Updates
- · Stress and Creep Rupture
- Hydrogen Embrittlement
- Tension and Compression
- Rapid Turnaround
- and much more ...

## Why Westmoreland?

Westmoreland Mechanical Testing & Research is a family owned and operated, independent testing and research laboratory that provides all-inclusive testing for a wide variety of non-metallic and metallic materials, offering standardized and customized testing solutions.

- Over 50 Years of Materials Testing Expertise
- Capacity to Test Variety of Specimen Shapes and Sizes
  - Nadcap, A2LA, and ISO Accredited
- High-Quality Testing and Analyzation
- Extensive Scope and Customized Data to Each Test
- On-Site Machining and Specimen Preparation
- Hundreds of Customizable Machines and Fixtures
- Entrusted by Thousands of Companies Worldwide
- On-Site Heat Treatment Services





USA

(1)724 537 3131 us.sales@wmtr.com www.wmtr.com UŁ

+44(0)1295 261211 salesuk@wmtr.com www.wmtr.co.uk

## Mechanical Testing Standardized Testing List



Tensile	
ASTM E8	Standard Test Methods for Tension Testing of Metallic Materials
ASTM B557	Standard Test Methods for Tension Testing Wrought and Cast Aluminum- and Magnesium-Alloy Products
ASTM E111	Standard Test Method for Young's Modulus, Tangent Modulus, and Chord Modulus
ASTM E21	Standard Test Methods for Elevated Temperature Tension Tests of Metallic Materials
Creep/Stress Rupture	
ASTM E139	Standard Test Methods for Conducting Creep, Creep-Rupture, and Stress-Rupture Tests of Metallic Materials
ASTM E292	Standard Test Method for Stress Rupture Combination
ASTM E328	Standard Test Methods for Stress Relaxation Tests for Materials and Structures
NASM 1312-10	Tension Fatigue Test Procedure for Aeronautical Fasteners
Hydrogen Embrittlement	
ASTM F519	Standard Test Method for Mechanical Hydrogen Embrittlement Evaluation of Plating/Coating Processes and Service Environments
NASM 1312-5	Stress durability of externally threaded fasteners
Impact Testing	
ASTM E23	Standard Test Methods for Notched Bar Impact Testing of Metallic Materials
ASTM E208	Standard Test Method for Conducting Drop-Weight Test to Determine Nil-Ductility Transition Temperature of Ferritic Steels
Bend Testing	
ASTM E290	Standard Test Methods for Bend Testing of Material for Ductility
ASTM E190	Standard Test Method for Guided Bend Test for Ductility of Welds
Compression	
ASTM E9	Standard Test Methods of Compression Testing of Metallic Materials at Room Temperature
Bearing	
ASTM E238	Standard Test Method for Pin-Type Bearing Test of Metallic Materials
Dynamic Tear	
ASTM E604	Standard Test Method for Dynamic Tear Testing of Metallic Materials
Shear	
ASTM F606	Standard Test Methods for Determining the Mechanical Properties of Externally and Internally Threaded Fasteners, Washers, Direct Tension Indicators, and Rivets
ASTM B565	Standard Test Method for Shear Testing of Aluminum and Aluminum-Alloy Rivets and Cold-Heading Wire and Rods
<b>ASTM B769</b>	Standard Test Method for Shear Testing of Aluminum Alloys
ASTM B831	Standard Test Method for Shear Testing of Thin Aluminum Alloy Products
ASTM B871	Standard Test Method for Shear Testing of Thin Aluminum Alloy Products