SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

WESTMORELAND MECHANICAL TESTING & RESEARCH LTD.
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MECHANICAL

Valid To: June 30, 2027 Certificate Number: 0621.03

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following tests on metals, alloys, metal products, plastics and reinforced plastic composites:

Test:	**Test Method(s):**
Metals	
Tensile	ASTM E345, E8/E8M, A370, B557, B557M, E21; BS EN ISO 6892-1, 6892-2; BS EN 2002-1, 2002-2
Youngs Modulus, Tangent Modulus and Chord Modulus	ASTM E111
Compression	ASTM E9
Bend Testing	WMTR/QTP/EM007[1]
Pin - Type Bearing	ASTM E238
Double Shear	ASTM B769
Slotted Shear	ASTM B831
Hardness	
Brinell Hardness (10/3000 HBW & 10/1000 HBW)	ASTM E10; BS EN ISO 6506-1
Rockwell Hardness (HRB & HRC)	ASTM E18
Vickers Hardness (HV5, HV10, HV30)	ASTM E92; BS EN ISO 6507-1
Micro-Hardness (HV 0.2, 0.3, 0.5, 1 & HK 0.5, 1)	ASTM E384; BS EN ISO 4545-1

Test:	**Test Method(s):**
Metals continued	
Impact	
Charpy V - Notch	ASTM E23, A370
Izod	BS 131-1
Fracture Toughness	
Fracture Toughness (KIC)	ASTM E399
Fatigue Testing	
Constant Amplitude Fatigue	BS EN 6072
High Cycle & Low Cycle Fatigue Under Force Control	ASTM E466
Low Cycle Fatigue Under Strain Control	ASTM E606/E606M
Fatigue Crack Growth	ASTM E647
Rotating Bend	WMTR-QTP-F028[1]
Creep Testing	
Creep	ASTM E139; BS EN 2002-005; ISO 204
Stress Rupture	ASTM E139, E292; ISO 204
Metallurgical Tests	
Depth of Decarburization (Micro Hardness and Optical Techniques)	ASTM E1077
Average Grain Size	ASTM E112 (comparison method), E1382 (semi-automatic method)
Largest Grain	ASTM E930
Hydrogen Embrittlement	ASTM F519
Inclusion Content	ASTM E45 (Method A & D)
Alpha Case in Titanium Microscopic and Bend	WMTR/QTP/MOG024[1]
Intergranular Attack and Intergranular Oxidation (IGA/IGO)	WMTR/QTP/MOG007[1]
Corrosion and Oxidation Resistance	WMTR/QTP/MOG013[1]
Preparation of Metallographic Specimens	ASTM E3
Macroetching Metals and Alloys	ASTM E340

Test:	Test Method(s):
Metallurgical Tests continued	
Microetching Metals and Alloys	ASTM E407
Plastics	
Compressive Properties	ASTM D695
Compressive Residual Strength Properties	ASTM D7137/D7137M
In-plane Shear	ASTM D3518/D3518M
Tensile	ASTM D3039/D3039M
Flexural	ASTM D790 (deflection method)
Tension Fatigue	ASTM D3479/D3479M
Peel Test	EN-2243-2
Chemical Tests on Metals	
Inductively Coupled Plasma Optical Emission Spectroscopy (ICP-OES) Nickel and Nickel alloys (Al, B, Co, Cr, Cu, Fe, Mn, Mo, Nb, Ni, P, Si, Ta, Ti, V, W) Titanium and Titanium alloys (Al, B, Cr, Cu, Fe, Mn, Mo, Ni, Nb, Si, Sn, V, Y, Zr)	WMTR/QTP/OES001[1]
Optical Emission Spectrometry (OES- Arc/Spark) Aluminum and Aluminum alloys (Be, Bi, Ca, Cd, Cr, Cu, Fe, Ga, Li, Mg, Mn, Na, Ni, P, Pb, Sb, Si, Sn, Sr, Ti, V, Zn, Zr) Carbon Steels, low alloy steels, stainless steels (Al, As, B, C, Ca, Co, Cr, Cu, Mn, Mo, Nb, Ni, P, Pb, S, Sb, Sn, Si, Ti, V, W, Zr)	WMTR/QTP/OES002[1] using OES
Inductively Coupled Plasma Mass Spectrometry Titanium and Titanium alloys (Fe, Mn, Mo, Ni, Sn, Y, Zr)	WMTR/QTP/CHEM004[1]
Combustion/Fusion (LECO) C, S, H_2, N_2 and O_2	ASTM E1019, E1409, E1447, E1569 WMTR/QTP/CHEM001
Intergranular Corrosion	ASTM G110; BS EN ISO 7866 Annex A
Alternate Immersion Stress Corrosion (Including Preparation of Samples)	ASTM G44, G47, G38, G49

Test:	**Test Method(s):**
Salt Spray (Fog)	ASTM B117

[1]In-house test method

Accredited Laboratory

A2LA has accredited

WESTMORELAND MECHANICAL TESTING & RESEARCH LTD.

Banbury, United Kingdom

for technical competence in the field of

Mechanical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 *General requirements for the competence of testing and calibration laboratories.* This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (*refer to joint ISO-ILAC-IAF Communiqué dated April 2017*).

Presented this 16th day of July 2025.

Mr. Trace McInturff, Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 0621.03
Valid to June 30, 2027

For the tests to which this accreditation applies, please refer to the laboratory's Mechanical Scope of Accreditation.