



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

WESTMORELAND MECHANICAL TESTING & RESEARCH LTD.

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www.wmtr.co.uk

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:

<u>Test:</u>	<u>Test Method(s):</u>
<u>Metals</u> 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
Rockwell Hardness (HRB & HRC)	ASTM E18
Vickers Hardness (HV5, HV10, HV30)	ASTM E92
Micro-Hardness (HV 0.2, 0.3, 0.5, 1 & HK 0.5, 1	ASTM E384

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Test:

Metals continued

Impact

Charpy V - Notch

Test Method(s):

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-F028¹

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/MOG024¹

Intergranular Attack and Intergranular Oxidation
(IGA/IGO)

WMTR/QTP/MOG007¹

Test:

Plastics

Compressive Properties

Compressive Residual Strength Properties

In-plane Shear

Tensile

Flexural

Tension Fatigue

Peel Test

Chemical Tests on Metals

Elemental Analysis

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)

Combustion/Fusion (LECO)

C, S, H₂, N₂ and O₂

Intergranular Corrosion

Alternate Immersion Stress Corrosion
(Including Preparation of Samples)

Salt Spray (Fog)

Test Method(s):

ASTM D695

ASTM D7137/D7137M

ASTM D3518/D3518M

ASTM D3039/D3039M

ASTM D790 (deflection method)

ASTM D3479/D3479M

EN-2243-2

WMTR/QTP/OES002¹ using OES

ASTM E1019, E1409, E1447, E1569

ASTM G110; BS EN ISO 7866 Annex A

ASTM G44, G47, G38, G49

ASTM B117

¹In-house test method



Accredited Laboratory

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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.

A blue ink signature of Mr. Trace McInturff, written in a cursive style.

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.



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