

WMT&R[®] LTD

WESTMORELAND MECHANICAL
TESTING & RESEARCH, LIMITED





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WMT&R established the UK subsidiary in Banbury, Oxfordshire in April 2003 as part of its global expansion programme that continues to grow today, twelve years later the Nadcap approved UK labs are housed in a “state of the art” 46,000 sq ft facility opened in January 2015.

The Banbury facility employs experienced professionals and can provide a range of mechanical testing services. Also offered are specialties in thin sheet fatigue, foil tensile, (tensile including ‘r’ ‘n’, and K value measurement) as well as pre-treatment and bonding test technologies. Other capabilities are Metallography and Corrosion testing. Testing of composites and polymers will be a key activity. The tensile and fatigue laboratories are fully air-conditioned and serviced by state of the art equipment, primarily Instron, ranging in capabilities from loads of 1N to 1000kN.

The prime central location in the UK is seen to be a positive advantage in serving ‘local’ automotive, motorsport, and aerospace sectors, as well as the rest of Europe and the world as the need arises.

The fundamental principles of high quality work ethic and fast turnaround of the parent company are observed and implemented as a matter of routine.



SPECIALIST & RESEARCH TESTING SERVICES

Specialist tensile and compression services include: Wire and Foil testing from 6 μm , Tension Testing including 'r' plastic strain ratio and 'n' strain hardening exponent measurements, Kahn Tear, and Fracture Toughness measurements. WMT&R is also leading the field in Metal Sheet Testing and the testing of Machined Samples from other product forms including Composites.

A specialist area for the UK lab is Bonding Testing, which includes Lap Shear evaluation of Bond Durability and Accelerated and Joint Degradation Testing. Also available is benchmarking and bond system variables e.g. pre-treatment, adhesive, and curing cycle.



WMT&R, Ltd is a fully integrated laboratory offering onsite sample manufacturing and heat treatment capabilities. Also available is a fully functional analytical and metallographic laboratory with services including Accelerated Corrosion (STM B117-95), Stress Humidity Testing, and Immersion Testing (Exfoliation, Constant Load, Constant Strain & ASSET). Corrosion Testing also extends to testing for Filiform Corrosion.

WMT&R, Ltd is a Nadcap approved world leader in composites testing. As composite and non-metallic materials become prevalent in manufacturing applications and more complex in structure, the need for accurate, comprehensive testing of these materials continues to grow. WMT&R is equipped to test thermoset and thermoplastic composites, laminates, fiber reinforced composites, sandwich core materials, resins, films, and adhesives.

WMT&R, Inc.

World Headquarters

Established in 1967 and located about 35 miles east of Pittsburgh, Pennsylvania, the laboratories of Westmoreland Mechanical Testing and Research, Inc. (WMT&R) are organized into seven advanced groups: Mechanical Testing; Stress Rupture and Creep Testing; Fracture Mechanics; Physical Metallurgy Group; Fatigue Testing; Chemical/Analytical Group; and the Machine Shop. Experienced in dependable low and elevated temperature testing (Liquid Helium to +2400° F). In addition to standard testing, WMT&R has the proven ability and resources on site to custom design tests for finished parts, odd shapes, and difficult/exotic materials. We have done testing which has never been accomplished before!

Find out the latest on advanced material testing and **Request a Quote** online at:

www.wmtr.co.uk

Testing includes:

- Fracture Toughness
- Composites Testing
- Short Rod
- Short Bar
- Da/DN
- JIC
- High Cycle Fatigue
- Low Cycle Fatigue
- Metallographic
- Analytical
- Hardness and Micro-hardness
- Failure Analysis
- Thermal Analysis
- Stress Corrosion
- Tensile
- Stress Rupture
- Creep
- Impact
- Charpy
- Physical Properties Testing
- Drop Weight
- Dynamic Tear
- Heat Treatment



Contact WMT&R® Inc. (World Headquarters)
Westmoreland Mechanical Testing & Research, Inc.

Mail to:

PO Box 388 • Youngstown, Pennsylvania 15696-0388 | USA

Ship to:

Old Route 30 • Westmoreland Drive
Youngstown, Pennsylvania 15696-0388 | USA

Tel: (+1) 724-537-3131 • **Fax:** (+1) 724-537-3151

E-mail: admin@wmtr.com • **Web:** wmtr.com



Contact WMT&R® Ltd. (UK Location)
Westmoreland Mechanical Testing & Research, Ltd.

Mail/Ship to:

19 Wildmere Road • Banbury, OX163JU
United Kingdom

Tel: (+44) (0)1295 261211 • **Fax:** (+44) (0) 1295 263096

E-mail: salesuk@wmtr.co.uk • **Web:** wmtr.co.uk

