

# WESTMORELAND MECHANICAL TESTING & RESEARCH

**CHEMICAL ANALYSIS TEST EXPERTS** 

Expedited **Services Available** 

**Extensive** Scope

**Customizable** Analysis

### **Do You Need To...**

- · Perform chemical overchecks?
- Have alloy development?
- Verify unknown materials?
- **Determine lot release?**
- Check specification lots?
- Outsource Quality Assurance or Quality Control?

#### Services

- Material-Overchecks
- Hydrogen Overchecks
- **Referee Testing**
- Lot Release
- Combustion
- Inert Gas Fusion
- **Specification Conformance**
- **Unknown Material Identification** ٠
- Chemical Composition for Welding
- **Carburization Conformance**
- Homogeneity Verification
- 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 Accredited, High-Quality Testing and Analyzation Extensive Scope and Customized Data to Each Test **On-Site Machining and Specimen Preparation** Mass Spectrometry (ICP), Graphite Furnace Entrusted by Thousands of Companies Worldwide Ability to Measure One Part-Per-Million to Five Percent **Powder Sieve Analysis** 

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

USA

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

ials Testing Laborator Non Metallic Materials Testing Metallic Materials Testing

621.01.621.02 ISO 17025 Accredited

## **CHEMICAL ANALYSIS**



**Standardized Testing List** 

LECO	
<b>ASTM E1447</b>	Standard Test Method for Determination of Hydrogen in Titanium and Titanium Alloys by Inert Gas Fusion Thermal Conductivity/Infrared Detection Method
<b>ASTM E1409</b>	Standard Test Method for Determination of Oxygen and Nitrogen in Titanium and Titanium Alloys by Inert Gas Fusion
<b>ASTM E1941</b>	Standard Test Method for Determination of Carbon in Refractory and Reactive Metals and Their Alloys by Combustion Analysis
<b>ASTM E1019</b>	Standard Test Method for Determination of Carbon, Sulfur, Nitrogen, and Oxygen in Steel, Iron, Nickel, and Cobalt Alloys by Various Combustion and Fusion Techniques
ASTM B170	Standard Specification for Oxygen-Free Electrolytic Copper-Refinery Shapes
OES	
<b>ASTM E1251</b>	Standard Test Method for Analysis of Aluminum and Aluminum Alloys by Spark Atomic Emission Spectrometry
ASTM E415	Standard Test Method for Analysis of Carbon and Low-Alloy Steel by Spark Atomic Emission Spectrometry
<b>ASTM E1086</b>	Standard Test Method for Analysis of Austenitic Stainless Steel by Spark Atomic Emission Spectrometry
ICP	
ASTM E2371	Standard Test Method for Analysis of Titanium and Titanium Alloys by Direct Current Plasma and Inductively Coupled Plasma Atomic Emission Spectrometry (Performance-Based Test Methodology)
<b>ASTM E1479</b>	Standard Practice for Describing and Specifying Inductively-Coupled Plasma Atomic Emission Spectrometers
<b>ASTM E2823</b>	Standard Test Method for Analysis of Nickel Alloys by Inductively Coupled Plasma Mass Spectrometry (Performance-Based Method)
GFAA	
ASTM E1184	Standard Practice for Determination of Elements by Graphite Furnace Atomic Absorption Spectrometry

For a full list of services, visit www.WMTR.com, call 724-537-3131 or email us.sales@wmtr.com