Laboratory Services

Independent UKAS Accredited Materials Testing Facility



Revision: SHP/UKAS/10/2016

...where performance matters

Independent Material Testing

We are experts in the supply and testing of engineering metals and plastics

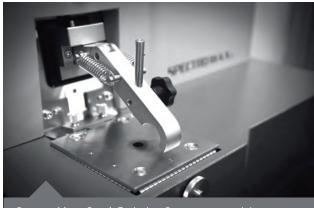
Our UKAS accredited materials testing laboratory offers a wide range of services and our metallurgists undertake consultancy services in a variety of application areas.

We undertake both single-event materials testing and on-going sampling programs that can be tailored to fit a customer's requirements. In addition, we are able to offer testing routines for specific customer applications enabling us to offer a supply route for materials with unique certification requirements.

Our testing laboratory is fairly unique in the metal stockholding sector and adds considerable value to our established service of engineering raw material supply for the motorsport market.

Available Testing & Analysis

- Tensile Testing
- · Charpy Impact Testing
- Chemical Analysis
- Metallurgical Analysis
- Corrosion Testing
- Hardness Testing
- · Physical Properties Testing



Spectro Maxx Spark Emission Spectrometer giving a complete chemical analysis

A modern, fully resourced laboratory

Having invested in modern, computer controlled, testing equipment we are able to offer a fast turnaround on most testing requirements. We aim to understand all customer requirements and have experience within a wide range different industries. This gives us the ability to offer all our customers, large and small, a high quality cost-effective service.

About Smiths High Performance

Smiths High Performance is a leading stockholder and supplier of high performance engineering materials to the global motorsport sector. We are supply partners in a range of specialist motorsport markets including Formula 1, Formula E, NASCAR, MOTO GP, WEC & WRC.

Further technical data available on the reverse of this Datasheet

www.smithshp.com info@smithshp.com

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Laboratory Equipment

30 Tonne Tensile Tester (ASTM B557, ASTM E8 & A370, BS EN ISC) 6892-1 & BS FN 2002-1)
 Elevated Temperature Tensile Testing facilities to 200° C (AS 	
 300J Impact Tester (ASTM E23 & A370) Cryogenic Cooling down to minus 60° C 	
Spectro Maxx Spark Emission Spectrometer for analysing: Iron Base Copper Base Nickel Base Aluminium Base Titanium Base Materials	
Metallurgical Microscopes, sample preparation equipment an equipment to allow: • Metallurgical Evaluation to ASTM A923 Method A • Phase Balance Analysis to ASTM E562 • Corrosion Testing to ASTM G48 + A923 Method C • Grain Size Analysis to ASTM E112	d associated
Vickers, HV 10 & HV30, Rockwell, B & C scale, Brinell 10/300	0
 Hocking Electrical Conductivity Testing Fischer Ferrite Testing *GAMMA-SCOUT Radiation Detector (Geiger Counter) 	*Not UKAS Accredited
	 Cryogenic Cooling down to minus 60° C Spectro Maxx Spark Emission Spectrometer for analysing: Iron Base Copper Base Nickel Base Aluminium Base Titanium Base Materials Metallurgical Microscopes, sample preparation equipment an equipment to allow: Metallurgical Evaluation to ASTM A923 Method A Phase Balance Analysis to ASTM E562 Corrosion Testing to ASTM G48 + A923 Method C Grain Size Analysis to ASTM E112 Vickers, HV 10 & HV30, Rockwell, B & C scale, Brinell 10/300 Hocking Electrical Conductivity Testing Fischer Ferrite Testing

Services / Investigations

Testing routines on materials prior to despatch to provide customers with additional quality assurance beyond that required by standard ISO 9001 quality systems.

Positive Material Identification (PMI) or a more complicated chemical analysis and mechanical testing programme to provide complete conformance to specification testing.

Material batch testing witnessed by an outside inspection Agency such as Lloyds Register of Shipping to ensure material traceability and integrity.

Investigations into materials failing to perform as expected during machining, welding or anodising. Solutions can often be found very quickly without having to rely on the technical expertise provided by the material manufacturer.

Advice on material/alloy selection, obsolete and unusual specifications and support for customers when drafting their own material specifications.

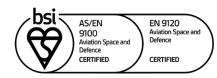
We are accredited by UKAS Quality Management (1930)

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All information in our data sheet is based on approximate testing and is stated to the best of our knowledge and belief. It is presented apart from contractual obligations and does not constitute any guarantee of properties or of processing or application possibilities in individual cases. Our warranties and liabilities are stated exclusively in our terms of trading.