

UKAS Accredited Testing Laboratory

Smiths Advanced Metals



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Independent UKAS Accredited Materials Testing Facility

Smiths Advanced Metals 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 programmes 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.

Investment

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.



Available Tests / Analysis	Equipment
Tensile Testing	30 Tonne Tensile Tester (ASTM E8 & A370, BS EN ISO 6892-1 & BES EN 2002-1) Elevated Temperature Tensile Testing facilities to 200 °C (ASTM E21 & BS EN ISO 6892-2)
Charpy Impact Testing	300J Impact Tester (ASTM E23 & A370) Cryogenic Cooling down to minus 60 °C
Chemical Analysis	Spectro Maxx Spark Emission Spectrometer for analysing iron base, copper base, nickel base, aluminium base and titanium base materials
Metallurgical Analysis & Corrosion Testing	Metallurgical Microscopes, sample preparation equipment and associated equipment to allow: <ul style="list-style-type: none"> - Metallurgical Evaluation to ASTM A923 Method A - Phase Balance Analysis to ASTM E582 - Corrosion Testing to ASTM G48 + A923 Method C - Grain Size Analysis to ASTM E112
Hardness Testing	Vickers (HV10 & HV30) and Rockwell C Hardness Testing
Physical Properties Testing	Hocking Electrical Conductivity Testing Fischer Ferrite Testing GAMMA-SCOUT Radiation Detector (Geiger Counter)

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