

Schedule of Accreditation

issued by

United Kingdom Accreditation Service

21 - 47 High Street, Feltham, Middlesex, TW13 4UN, UK

 <p>Accredited to ISO/IEC 17025:2005</p>	<h3>Ross & Catherall Ltd</h3>	
	<p>Issue No: 014 Issue date: 07 December 2009</p>	
	<p>Forge Lane Killamarsh Sheffield South Yorkshire S21 1BA</p>	<p>Contact: Mr N Gravill Tel: +44 (0)114 248 6404 Fax: +44 (0)114 247 5999 E-Mail: NGravill@doncasters.com Website: www.doncasters.com</p>
<p>Testing performed at the above address only</p>		

DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
<p>METALS and ALLOYS: FERROUS and NON-FERROUS</p> <p>Iron Base Alloys Cobalt Base Alloys Nickel Base Alloys</p>	<p><u>Chemical Tests</u></p> <p><u>Elemental Analysis:</u></p> <p>Aluminium (Al) Chromium (Cr) Cobalt (Co) Copper (Cu) Hafnium (Hf) Iron (Fe) Manganese (Mn) Molybdenum (Mo) Nickel (Ni) Niobium (Nb) Phosphorus (P) Rhenium (Re) Ruthenium (Ru) Silicon (Si) Tantalum (Ta) Titanium (Ti) Tungsten (W) Vanadium (V) Yttrium (Y) Zirconium (Zr)</p>	<p>Documented In-House Procedures identified by SOP Number which are based on/incorporate Standard Specifications as referenced</p> <p>SOP 3.3.0 Philips PW 2404 XRF Spectrometer</p>



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METALS and ALLOYS: FERROUS and NON-FERROUS (cont'd)	<u>Chemical Tests</u> (cont'd)	
	<u>Elemental Analysis:</u> (cont'd)	
	Aluminium (Al)	SOP 3.8.0; Spectrolab: Optical Emission Spectrometer
	Boron (B)	
	Carbon (C)	
	Chromium (Cr)	
	Cobalt (Co)	
	Copper (Cu)	
	Hafnium (Hf)	
	Iron (Fe)	
Manganese (Mn)		
Molybdenum (Mo)		
Nickel (Ni)		
Niobium (Nb)		
Nitrogen (N)		
Phosphorus (P)		
Silicon (Si)		
Sulphur (S)		
Tantalum (Ta)		
Tin (Sn)		
Titanium (Ti)		
Tungsten (W)		
Vanadium (V)	SOP 3.8.0; Spectrolab: Optical Emission Spectrometer	
Zirconium (Zr)		
Antimony (Sb)	SOP 3.6.0; Optical Emission Spectrometer; ARL 34000D (Visual range only) and Hollow Cathode	
Arsenic (As)		
Bismuth (Bi)		
Cadmium (Cd)		
Calcium (Ca)		
Gallium (Ga)		
Indium (In)		
Lead (Pb)		
Magnesium (Mg)		
Selenium (Se)		
Silver (Ag)		
Tellurium (Te)		
Thallium (Tl)		
Tin (Sn)	The above procedures also utilise SOP Numbers 3.0.0 and 3.1.0	
Zinc (Zn)		
Nitrogen (N)	SOP 3.7.0	
Oxygen (O ₂)	LECO ANALYSER TC 436 Combustion Technique	



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Iron Base Alloys Cobalt Base Alloys Nickel Base Alloys (cont'd)	<u>Chemical Tests</u> (cont'd) <u>Elemental Analysis:</u> (cont'd) Carbon (C) Sulphur (S)	SOP 3.7.0 LECO ANALYSER 444 LS Combustion Technique
	END	