

# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

 <p><b>0178</b></p> <p>Accredited to <b>ISO/IEC 17025:2017</b></p>	<p><b>Ross &amp; Catherall Ltd</b></p> <p><b>Issue No: 030    Issue date: 15 October 2021</b></p>	
	<p><b>Forge Lane</b> <b>Killamarsh</b> <b>Sheffield</b> <b>South Yorkshire</b> <b>S21 1BA</b></p>	<p><b>Contact: Craig Michie</b> <b>Tel: +44 (0)114 247 9814</b> <b>Mobile: +44 (0)779 549 3394</b> <b>E-Mail: cmichie@doncasters.com</b> <b>Website: www.doncasters.com</b></p>
<p><b>Testing performed at the above address only</b></p>		

### DETAIL OF ACCREDITATION

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



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
METALS and ALLOYS: FERROUS and NON-FERROUS (cont'd)	<u>Chemical Tests:</u> (cont'd) <u>Elemental Analysis:</u> (cont'd)	
Iron Base Alloys Cobalt Base Alloys Nickel Base Alloys	Silicon (Si) Tantalum (Ta) Titanium (Ti) Tungsten (W) Vanadium (V) Zirconium (Zr) Phosphorous (P) Rhenium (Re) (Nickel Base Only)	SOP 3.3.0B Zetium XRF Spectrometer
Iron Base Alloys Cobalt Base Alloys Nickel Base Alloys	Aluminium (Al) Boron (B) Phosphorus (P)	SOP 3.8.0; SpectroMaxx: Optical Emission Spectrometer
Cobalt Base Alloys Nickel Base Alloys	Antimony (Sb) Arsenic (As) Barium (Ba) Beryllium (Be) Bismuth (Bi) Bromine (Br) Cadmium (Cd) Calcium (Ca) Cerium (Ce) Chlorine (Cl) Copper (Cu) Dysprosium (Dy) Europium (Eu) Erbium (Er) Gadolinium (Gd) Gallium (Ga) Germanium (Ge) Gold (Au) Hafnium (Hf) Holmium (Ho) Indium (In) Iridium (Ir) Iron (Fe) Lanthanum (La) Lead (Pb) Lithium (Li) Lutetium (Lu) Magnesium (Mg) Manganese (Mn)	SOP 3.9.0 using Glow Discharge Mass Spectrometer



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<p>METALS and ALLOYS: FERROUS and NON-FERROUS (cont'd)</p> <p>Cobalt Base Alloys Nickel Base Alloys</p>	<p><u>Chemical Tests: (cont'd)</u></p> <p><u>Elemental Analysis: (cont'd)</u></p> <p>Mercury (Hg) Neodymium (Nd) Osmium (Os) Palladium (Pd) Phosphorus (P) Platinum (Pt) Praseodymium (Pr) Rhenium (Re) Rhodium (Rh) Ruthenium (Ru) Samarium (Sm) Scandium (Sc) Selenium (Se) Silicon (Si) Silver (Ag) Sulphur (S) Tantalum (Ta) Terbium (Tb) Tellurium (Te) Thallium (Tl) Thorium (Th) Thullium (Tm) Tin (Sn) Tungsten (W) Uranium (U) Ytterbium (Yb) Yttrium (Y) Zinc (Zn) Zirconium (Zr)</p>	<p>SOP 3.9.0 using Glow Discharge Mass Spectrometer</p>
<p>Iron Base Alloys Cobalt Base Alloys Nickel Base Alloys</p>	<p>Nitrogen (N) Oxygen (O<sub>2</sub>)</p>	<p>SOP 3.7.1 using Combustion Technique</p>
<p>Iron Base Alloys Cobalt Base Alloys Nickel Base Alloys</p>	<p>Carbon (C) Sulphur (S)</p>	<p>SOP 3.7.0 using Combustion Technique</p>
END		