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



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trading as AMG Analytical Services

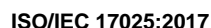
Issue No: 035 Issue date: 14 January 2025

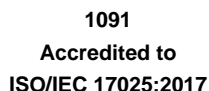
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Website: www.amg-chrome.com

Testing performed at the above address only

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
METALS AND ALLOYS	<u>Chemical Tests</u>	
Aluminium and Aluminium alloys	Boron Calcium Chromium Copper Iron Lead Lithium Magnesium Manganese Nickel Potassium Silicon Strontium Tin Titanium Vanadium Zinc Zirconium	Documented In-House method ICP 210 (ICPALLY) using ICP-OES
	Boron Calcium Chromium Copper Iron Lead Lithium Magnesium Manganese Nickel Potassium Silicon Strontium Tin Titanium	Documented In-House method ICP 511 (ICPTIBAL) using ICP-OES





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METALS AND ALLOYS (cont'd)	<u>Chemical Tests</u> (cont'd)	
Cobalt and Cobalt alloys	Aluminium Boron Chromium Cobalt Copper Iron Manganese Molybdenum Niobium Nickel Phosphorus Silicon Tantalum Tin Titanium Tungsten Vanadium	Documented In-House method ICP 228 (ICPCOBASE) using alkali fusion and ICP-OES
Nickel and Nickel alloys	Calcium Copper Hafnium Iron Lanthanum Manganese Molybdenum Niobium Palladium Phosphorous Platinum Potassium Ruthenium Silicon Sodium Thorium Vanadium Zirconium	Documented In-House method ICP 577 (ICP) using ICP-OES
Nickel Boron and Iron Boron alloys	Aluminium Boron Chromium Cobalt Copper Manganese Nickel Phosphorus Silicon	Documented In-House method ICP 228 (ICPFEB) using alkali fusion and ICP-OES



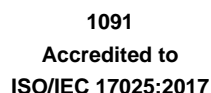
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METALS AND ALLOYS (cont'd)	<u>Chemical Tests</u> (cont'd)	
Nickel Boron and Iron Boron alloys (cont'd)	Aluminium Boron Chromium Cobalt Copper Iron Manganese Phosphorus Silicon	Documented In-House method ICP 228 (ICPNIB) using alkali fusion and ICP-OES
	Carbon Sulphur	Documented In-House methods LECO 501 & 502 using IR
	Hydrogen Nitrogen Oxygen	Documented In-House methods LECO 511 & 512 using IR and Thermal Conductivity
Titanium Metal and alloys Zirconium Metal and alloys	Phosphorus	Documented In-House methods XRF 301 and XRF 302 (XRFPHOS & XRFPHOSI) using bead fusion and XRF
	Aluminium Chromium Cobalt Copper Iron Manganese Molybdenum Nickel Silicon Tin Titanium Tungsten Vanadium Zirconium	Documented In-House methods XRF 301 and XRF 302 (XRFFETI) using bead fusion and XRF



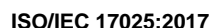
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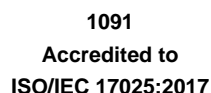
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Assessment Manager: GE



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
ALLOYS (cont'd) Alloys: Aluminium, Vanadium, Titanium, Zirconium, Chromium, Manganese, Cobalt, Iron, Nickel, Copper, Niobium, Molybdenum, Tin, Tungsten, Magnesium, Calcium, Zinc, Hafnium, Tantalum and Lead, Metal Carbides (cont'd)	<u>Chemical Tests (cont'd)</u> Vanadium Zinc Zirconium Boron Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel Silicon Tin Titanium Vanadium Zinc Carbon Sulphur Hydrogen Nitrogen Oxygen	Documented In-House method ICP 236 (ICPCU) using ICP-OES (cont'd) Documented In-House method ICP 237 (ICPCUAL) using ICP-OES Documented In-House methods LECO 501 & 502 using IR Documented In-House methods LECO 511 & 512 using IR and Thermal Conductivity
REFRACTORIES AND RELATED RAW MATERIALS Refractories and related raw materials	<u>Chemical Tests</u> Elemental Oxides: Aluminium Barium Calcium Chromium Iron Magnesium Manganese Phosphorus Potassium Silicon Sodium Strontium Titanium Vanadium Zinc Zirconium	Documented In-House methods XRF 301 and XRF 302 (XRFOX1) using bead fusion and XRF



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REFRACTORIES AND RELATED RAW MATERIALS (cont'd)	<u>Chemical Tests</u> (cont'd)	
Refractories and related raw Materials (cont'd)	Free lime (Range 0-15%)	Documented In-House method ICP 570 using ICP-OES
	Carbon Sulphur	Documented In-House methods LECO 501 & 502 using IR
	Hydrogen Oxygen Nitrogen	Documented In-House methods LECO 511 & 512 using IR and Thermal Conductivity
Alloys, refractories and related, raw materials, metals, metal carbides, coatings, rare earth products, flue dust, corrosion products, slags, powders / solids of suitable dimensions	Phase identification by structural fingerprints with reference to ICD / PDF	Documented In-House method XRD 501 using qualitative XRD
	<u>Physical Tests</u>	
Alloys, refractories and related raw materials, metals, metal carbides, rare earth products	Particle size analysis	Documented In-House method PART 511 using laser scattering Technique (Malvern Mastersizer)
Alloys, refractories, metals, oxides, and related raw materials	Loss on Drying	Documented In-House method LOD 501 by Gravimetry
Refractories and related raw materials	Loss on Ignition	Documented In-House method LOD 502 by Gravimetry
END		