


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

| | | |
|--|---|---|
|  0366 Accredited to ISO/IEC 17025:2017 | BES Group Testing Rotech Ltd Issue No: 053 Issue date: 19 March 2026 | |
| | Moxley Industrial Centre Western Way Wednesbury WS10 7BG United Kingdom | Contact: Paulina Klejnowska Tel: +44 (0)121 505 4050 E-Mail: Paulina.Klejnowska@besgroup.com Website: besgroup.com |
| Testing performed by the Organisation at the locations specified | | |

Locations covered by the organisation and their relevant activities

Laboratory locations:

| Location details | Activity | Location code |
|---|--|---------------|
| Address BES Group Testing Rotech Ltd Western Way Wednesbury WS10 7BG Local contact Paulina Klejnowska | <u>Testing</u> Chemical tests Corrosion tests Mechanical tests Metallurgical tests Weldment Tests | A |
| Address BES Group Testing Rotech Ltd Linley Lodge Laboratory Westgate Aldridge Walsall WS9 8DG Local contact Paulina Klejnowska | <u>Testing</u> Corrosion tests Mechanical tests Metallurgical tests Weldment Tests | B |



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DETAIL OF ACCREDITATION

| Materials/Products tested | Type of test/Properties measured/Range of measurement | Standard specifications/ Equipment/Techniques used | Location Code |
|---|---|---|---------------|
| METALS, ALLOYS and METAL PRODUCTS | <u>Chemical Tests</u> | | |
| Aluminium alloys | Elemental analysis Si, Fe, Mn, Cu, Mg, Zn, Cr, Pb, Sn, Ti | Documented In-House Method RP101 using Optical Emission Spectroscopy | A |
| Aluminium alloys (Wrought) | Elemental analysis Si, Fe, Cu, Mn, Mg, Cr, Ni, Zn, Ti, Pb, Sn, Zr, V, Ga, Bi | Documented In-House Methods RP116 & RP117 using ICP-OES | A |
| Ferrous Based Alloys | Elemental analysis Mn, Si, P, Cu, Ni, Cr, Mo, V, Ti, Al, Nb, B | Documented In-House Methods RP116 & RP-117 using ICP-OES | A |
| Ferrous Based Alloys | Elemental analysis C, Mn, Si, S, P, Cu, Ni, Cr, Mo, Sn, Nb, V, Al, Ti, B, Zr, Pb, W, Co, Mg, N | Documented In-House Method RP101 using Optical Emission Spectroscopy | A |
| Nickel Alloys | Elemental analysis C, Si, Mn, P, S, Cr, Mo, Ni, Al, Co, Cu, B, Ti, W, V, Nb, Fe, Ta, Zr | Documented In-House Method RP101 using Optical Emission Spectroscopy | A |
| Cupro Nickel Alloys | Elemental analysis Al Bi B Co Cr P Pb Si Sn Zn Sb Fe Mn, Ni, Cu (balance) | Documented In-House Methods RP116 using ICP-OES | A |
| High alloyed steels, low alloyed steels, copper alloys cupro nickel alloys & plain carbon steels. | Determination of Carbon and Sulphur | Documented In-House Method RP138 | A |
| Cast iron, copper alloys, ferro alloys, high alloyed steels, low alloyed steels, nickel and cobalt alloys, plain carbon steels and refractories | Qualitative and Semi-Quantitative analysis of elements above atomic No.5 | Documented In-House Method RP362 using Energy Dispersive Spectroscopy | A |
| High alloyed steels, low alloyed steels, copper alloys & plain carbon steels. | Determination of Nitrogen | Documented In-House Method RP136 | A |



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| METALS, ALLOYS and METAL PRODUCTS (cont'd) | <u>Corrosion Tests</u> | | |
| Austenitic stainless steels | Susceptibility to intergranular corrosion | ASTM A262-15(R21) (Practice A, C & E) | A |
| Stainless Steels & related alloys | Pitting and Crevice Corrosion | ASTM G48-20e1 Method A | A |
| Wrought nickel rich chromium bearing alloys | Susceptibility to intergranular corrosion | ASTM G28-22 Method A | A |
| | <u>Mechanical Tests</u> | | |
| | Bend | BS EN ISO 7438:2020 | A, |
| | Hardness: | | |
| | Brinell (5/750, 10/3000) | BS EN ISO 6506-1:2014 ASTM E10:23 | A |
| | Rockwell Scales B & C | BS EN ISO 6508-1:2023 ASTM E18-24 | A |
| | Vickers HV5, HV10, HV30 | BS EN ISO 6507-1:2023 ASTM E92-23 | A |
| | Vickers HV10 | BS EN ISO 6507-1:2023 ASTM E92-23 | B |
| | Low Force Vickers HV0.3, 0.5 and 1 | BS EN ISO 6507-1:2023 | A |
| | Micro Hardness HV 0.10 | ASTM E384-22 | A |
| | Hk 0.3, 0.5 | BS EN ISO 4545-1:2023 | A |



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| METALS, ALLOYS and METAL PRODUCTS (cont'd) | <u>Mechanical Tests</u> (cont'd) | | |
| | Impact: | | |
| | Izod | BS 131:Part 1:1961(2015) | A |
| | Charpy (V-notch) (-196°C and -101°C to ambient) Including %Shear and Lateral Expansion | BS EN ISO 148-1:2016 ASTM A370-24 ASTM E23-24 ASTM A923:2023 Method B | A |
| Pipes and tubes | Tensile (Ambient temperature, forces from 2 kN to 600 kN) | BS EN ISO 6892-1:2019 Methods A & B BS EN 2002-1:2005 ASTM E8/8M-24 ASTM A370-24 ASTM B557/B557M-15(2023) | A |
| | Tensile (temperature from ambient to 600°C, forces from 2 kN to 100 kN) | BS EN ISO 6892-2:2018 Method A ASTM E21-20 | A |
| Fasteners (Including Bolts, Screws and Nuts) | Crush & Flattening | BS EN ISO 8492:2013 BS 6323:Part 1:1982 (Withdrawn) ASTM A370-24 | A |
| Fasteners (Including Bolts, Screws and Nuts) | Proof Load and Tension | BS EN ISO 898-1:2013 BS EN ISO 898-2:2022 BS EN ISO 3506-1:2020 BS EN ISO 3506-2:2020 ASTM F606/F606M-24 ASTM F738-02(2008) (Withdrawn) ASTM A370-24 | A |
| | Partial decarburization depth | BS EN ISO 898-1:2013 ASTM F2328-17(2022) | A |



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| METALS, ALLOYS and METAL PRODUCTS (cont'd) | <u>Metallurgical Tests</u> | | |
| | Case depth (Surface Hardened Layers) | BS 6286:1982(2005) ISO 4970:1979 BS EN ISO 2639:2002 BS EN 10328:2005 | A |
| | Depth of Decarburisation | BS EN ISO 3887:2023 | A |
| | Dezincification | BS EN ISO 6509-1:2014 AS 2345:2006 (R2016) (Appendix C) | A |
| | Average Grain size (Comparison) | BS EN ISO 643:2024 ASTM E112- -24 (Method A) | A |
| | Characterising Duplex Grain Size | ASTM E1181-02(2023) | A |
| | Estimating Largest Grain Size (ALA) | ASTM E930-18 | A |
| | Fractographic and microscopical examination | Documented In-House Method RP 361 | A |
| | Inclusion content | ISO 4967:2013 ASTM E45-23 (Method A only) | A |
| | Macrostructure | ASTM E381-22 ASTM A604/A604M-07(2022) | A |
| | Average Grain size (Comparison Method) | ASTM E112-24 (Method A) | B |
| | Austenite spacing | DNVGL-RP- F112:2019 – Amended 2021-09 | B |
| | Volume fraction | ASTM E562-19e1 | A, B |
| | Detrimental intermetallic phases | ASTM A923:2023 Method A | A, B |
| Fe alloys, Stainless Steels, Al alloys, Ti alloys, Ni alloys and Superalloys | Microstructures | Documented In-House Method RP 368 | A |



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| METALS, ALLOYS and METAL PRODUCTS (cont'd) | <u>Metallurgical Tests (cont'd)</u> | | |
| Fe alloys, Stainless Steels and Al alloys | Microstructures | Documented In-House Method RP 368 | B |
| Weldments and Brazing | Tests designated in specified Welding Codes as detailed below:- Bend, Fracture, Hardness, Impact, Tensile, Macro / Micro examination | BS EN ISO 4136:2022 BS EN ISO 5173:2023 BS EN ISO 5178:2019 BS EN ISO 5817:2023 BS EN ISO 9015-1:2011 BS EN ISO 9015-2:2016 BS EN ISO 9016:2022 BS EN ISO 9017:2018 BS EN ISO 9018:2015 BS EN ISO 17639:2022 BS EN ISO 15613:2004 BS EN ISO 15614-8:2016 BS 1140:1993 BS 4871:Part 3:1985 BS 4872:Part 1:1982 BS 4872:Part 2:1976 BS EN ISO 9606-1:2017 BS EN ISO 9606-2:2004 BS EN ISO 15614-1:2017+A1:2019 BS EN ISO 15614-2:2005 BS EN ISO 15620:2019 BPVC ASME IX:2023 CAP 533 BCAR Section A8-10 | A |
| METALLIC COATINGS | <u>Corrosion Tests</u> Neutral salt spray | ASTM B117-19 BS EN ISO 9227:2022-a1: 2024 | A |



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| METALLIC COATINGS (cont'd) | <u>Metallurgical Tests</u> | | |
| | Plating | BS EN ISO 1463:2021 | A |
| | Coating mass | BS EN 10346:2015 (Annex A) | A |
| | <u>Chemical Test</u> | | |
| Chromate treated surfaces | Presence of hexavalent chromium | Documented In-house Method RP110 | A |
| PAINT and VARNISHES | <u>Environmental Tests</u> | | |
| | Resistance to dry heat | Documented In-House Methods RP127 | A |
| | <u>Mechanical Tests</u> | | |
| | Adhesion | BS EN ISO 2409:2020 | A |
| END | | | |