


# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

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

|   |  |   |
|---|--|---|
|  <p><b>0935</b></p> <p>Accredited to<br/><b>ISO/IEC 17025:2017</b></p> | <h3>ASAMS Limited</h3> <p><b>Issue No: 045    Issue date: 19 November 2019</b></p>                                     |   |
|   | <p><b>Marine Building</b><br/>Owen Road<br/>Harfreys Industrial Estate<br/>Great Yarmouth<br/>Norfolk<br/>NR31 0NA</p> | <p><b>Contact: Mr A Page</b><br/>Tel: +44 (0)1493 653535<br/>Fax: +44 (0)1493 653254<br/>E-Mail: sales@asams.co.uk<br/>Website: www.asams.co.uk</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                      |
|-----------------------------------|---|---|
| METALS, ALLOYS and METAL PRODUCTS | <u>Mechanical Tests</u>                               |   |
|                                   | Bend  | BS EN ISO 7438:2016   |
|                                   | Hardness:   |   |
|                                   | Brinell (HB 10/3000)                                  | BS EN ISO 6506-1:2014<br>ASTM E10- 18                                   |
|                                   | Rockwell (B and C scales)                             | BS EN ISO 6508-1:2016<br>ASTM E18-19                                    |
|                                   | Vickers (HV5, 10)                                     | BS EN ISO 6507-1:2018<br>ASTM E92-17                                    |
|                                   | Tensile at ambient temperature (Forces up to 600 kN)  | BS EN ISO 6892-1:2016<br>ASTM E8/E8-16a<br>ASTM A370-19<br>ASTM B557-15 |
|                                   | Impact testing:                                       |   |
|                                   | Charpy (-196°C and -123°C to Ambient Temperature)     | BS EN ISO 148-1:2016<br>ASTM E23- 18<br>ASTM A923-14 Method B           |
|                                   | Lateral expansion and % Shear                         | BS EN ISO 148-1:2016<br>ASTM E23- 18                                    |



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|--|--|---|
| METALS, ALLOYS and METAL PRODUCTS (cont'd) | <u>Metallurgical Tests</u>   |   |
|  | Macrostructure and Microstructure Assessment   | ASAMS OP No 07 rev2   |
|  | Ferrite content  | ASTM E562:11<br>OP27 Rev1 using Feritscope  |
|  | Graphite content by Comparison   | ASTM A247:19  |
|  | Average Grain size   | ASTM E112:13  |
|  | Austenite Spacing  | DNVGL-RP-F112 A.6   |
|  | Coating thickness  | ASTM B487:85(2013)  |
| Duplex Stainless Steel                     | Detrimental Intermetallic Phases   | ASTM A923-14 Method A   |
| WELDMENTS                                  | <u>Mechanical and Metallurgical Tests</u>  |   |
|  | Tests designated in specified welding codes as detailed below:   |   |
|  | Bend, Fracture, Hardness, Impact, Tensile and Macro assessment in accordance with specific welding codes | BS EN ISO 9606-1:2017<br>BS EN ISO 9606-2:2004<br>BS EN ISO 15614-1:2017+A1:2019<br>BS EN ISO 15614-2:2005<br>BS EN ISO 15614-6:2006<br>BS EN ISO 15614-7:2016<br>BS EN ISO 15614-8:2016<br>BS EN ISO 9016:2012<br>BS EN ISO 5178:2019<br>BS EN ISO 4136:2012<br>BS EN ISO 5173:2010+A1:2011<br>BS EN ISO 9015-1:2011<br>BS EN ISO 9017:2018<br>BS EN ISO 17639:2013<br>BS 4515:Part 1:2009<br>BS 4515:Part 2:1999<br>BS 4871:Part 3:1985<br>BS 4872:Part 1:1982<br>BS 4872:Part 2:1976<br>ANSI/AWS D1.1-15<br>ASME IX- 19<br>ASAMS OP No 07 rev. 2<br>ASAMS OP No 09 rev. 1<br>BS EN ISO 5817:2014 |



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| Carbon steel, stainless steel & stainless steel clad reinforcing bars, wire rod, wires, welded fabrics for the reinforcement of concrete, and steel bars, wire and strand for the pre-stressing of concrete | <u>Mechanical Tests</u>                               |   |
|   | Tensile ( $R_m$ and $F_m$ only)<br>(Forces to 600 kN) | BS EN ISO 15630-1:2019<br>BS 8548:2017                  |
|   | Weld shear  | BS EN ISO 15630-2:2019<br>BS 8548:2017                  |
|   | Rebend  | BS 8548:2017  |
|   | <u>Metallurgical tests</u>                            |   |
|   | Macro examination                                     | BS 8548:2017  |
| STAINLESS STEELS  | <u>Corrosion Tests</u>                                |   |
|   | Pitting and crevice corrosion resistance              | ASTM G48-2011(2015) (Method A)<br>ASTM A923-14 Method C |
| AUSTENITIC STAINLESS STEELS   | Susceptibility to intergranular attack                | ASTM A262- 15 (Practice A and E)                        |
| END   |   |   |