


# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

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

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|  <p><b>UKAS</b><br/>TESTING</p> <p>2668</p> <p>Accredited to<br/>ISO/IEC 17025:2017</p> | <p><b>Innoval Technology Limited</b></p> <p>Issue No: 017    Issue date: 26 May 2021</p> |  |
|  | <p>Beaumont Close<br/>Banbury<br/>Oxon<br/>OX16 1TQ</p>                                  | <p>Contact: Mrs K Hall<br/>Tel: +44 (0)1295 702817<br/>Fax: +44 (0)1295 702898<br/>E-Mail: karen.hall@innovaltec.com<br/>Website: www.innovaltec.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                     |
|------------------------------------|---|--|
| METALS, ALLOYS AND METAL PRODUCTS  | <u>Mechanical Tests</u>                               |  |
| Aluminium sheet                    | Earing  | ISO 11531:2015   |
|                                    | Erichsen cupping                                      | ISO 20482:2013   |
| Metals, Alloys and Metal Products. | Vickers micro-hardness (HV 0.1)                       | BS EN ISO 6507-1:2018  |
|                                    | <u>Metallurgical Tests</u>                            |  |
|                                    | Grain size  | ASTM E112-13   |
|                                    | Particle size measurement (Automatic Image Analysis)  | ASTM E1245-03 (2016)   |
|                                    | <u>Corrosion Tests</u>                                |  |
| Aluminium alloys                   | Corrosion potentials                                  | ASTM G69-97 (Withdrawn)<br>ASTM G69-20                                 |
|                                    | Exfoliation corrosion                                 | ASTM G34-01 (2018) <sup>ε1</sup><br>ASTM G66-99 (2018)                 |
|                                    | Galvanic corrosion                                    | ASTM G71-81(2019)  |
|                                    | Intergranular corrosion                               | BS EN ISO 11846:2008 Method B<br>Documented In-house Method<br>CTS-024 |
|                                    | Pitting corrosion                                     | ASTM G46-94 (2018)   |



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Issue No: 017 Issue date: 26 May 2021

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| Materials/Products tested                  | Type of test/Properties measured/Range of measurement | Standard specifications/ Equipment/Techniques used  |
|--|---|---|
| METALS, ALLOYS AND METAL PRODUCTS (cont'd) | <u>Chemical Tests</u>                                 |   |
| Aluminium & Alumina powders                | Residual carbon                                       | Documented In-house Method CTS-029 using Leco RC 412  |
| Metals, Alloys and Metal Products.         | Qualitative analysis                                  | Documented In-house Method CTS-019 using SEM/EDX<br>Documented In-house Method CTS-021 using FTIR |
|  | <u>Physical Tests</u>                                 |   |
| Aluminium alloys                           | Electrical conductivity                               | Documented In-house Method CTS-028 using Verimet M4900 conductivity meter.                        |
|  | Melting temperature ranges                            | Documented In-house Method CTS-022 using DSC  |
|  | Quantitative Oxide film thickness                     | Documented In-house Method CTS-021-Appendix 2 using FTIR  |
| Paint coatings                             | <u>Chemical Tests</u>                                 |   |
|  | Cure test   | Documented In-house Method CTS-025  |
|  | <u>Mechanical Tests</u>                               |   |
|  | Adhesion  | ASTM D3359-17   |
|  | Coating flexibility                                   | Documented In-house Method CTS-025  |
|  | Hardness (Pencil)                                     | ASTM D3363-20   |
|  | Impact resistance                                     | ASTM D2794-93(2019)   |
| END  |   |   |