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| <div>Datasheet:</div> <div>EN AW 5754<br/>Extruded - Aluminium</div> <div>Alumeco ApS<br/>25-03-2025</div>                                                                                                                                                                                            |                      |                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                  | <div>Internal alloy name: 5754</div> <div>Chemical Symbol: AW – AlMg3<br/>International alloy name: EN AW 5754</div> <div>DIN-Werkstoff no.: 3.3535<br/>Alloy type: None heat treatable alloy</div> |                        |                      |                                                                                                                                                                                                                                                                                                        |                     |                |       |
| <div>Main usage:</div> <div><ul style="list-style-type: none"><li>Molds</li><li>Machines and machines parts</li><li>Marine applications</li><li>Facade and building industry</li><li>Can be used in the food industry</li></ul></div>                                                                 |                      |                         | <div>Important norms and literature:</div> <div><div><div>General Standards:</div><div>EN 573-3:2013: Aluminium and aluminium alloys – Chemical composition and form of wrought products – Part 3: Chemical composition and form of products.</div></div><div><div>Usages:</div><div>EN 13195: Specifications for wrought products for marine applications</div><div>EN 602: Chemical composition of semi-finished products for the used for the fabrication of articles for use in contact with foodstuff</div></div></div> <div><div>Product standards:</div><div>EN 755-1:2016: Aluminium and aluminium alloys – Extruded rod/bar, tube and profiles – Part 1: Technical conditions for inspection and delivery</div><div>EN 755-2:2016: Aluminium and aluminium alloys – Extruded rod/bar, tube and profiles – Part 2: Mechanical properties.</div><div>EN 755-3:2016: Aluminium and aluminium alloys – Chemical composition and form of wrought products – Part 3: Chemical composition and for of product</div></div> |                                                                                                                                                                                                                                  |                                                                                                                                                                                                     |                        |                      |                                                                                                                                                                                                                                                                                                        |                     |                |       |
| <div>Main properties:</div> <div><ul style="list-style-type: none"><li>Good machining abilities</li><li>High corrosion resistance</li><li>Good weld abilities</li></ul></div>                                                                                                                         |                      |                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                  |                                                                                                                                                                                                     |                        |                      |                                                                                                                                                                                                                                                                                                        |                     |                |       |
| <div>Chemical composition in %: EN 573-3:2013</div>                                                                                                                                                                                                                                                   |                      |                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                  |                                                                                                                                                                                                     |                        |                      |                                                                                                                                                                                                                                                                                                        |                     |                |       |
| Al                                                                                                                                                                                                                                                                                                    | Si                   | Fe                      | Cu                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Mn                                                                                                                                                                                                                               | Mg                                                                                                                                                                                                  | Cr                     | Zn                   | Ti                                                                                                                                                                                                                                                                                                     | Remarks             | Others<br>Max. |       |
|                                                                                                                                                                                                                                                                                                       |                      |                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                  |                                                                                                                                                                                                     |                        |                      |                                                                                                                                                                                                                                                                                                        |                     | Each           | Total |
| Remainder                                                                                                                                                                                                                                                                                             | Max. 0,40            | Max. 0,40               | Max. 0,10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Max. 0,50                                                                                                                                                                                                                        | 2,6 – 3,6                                                                                                                                                                                           | Max. 0,30              | Max. 0,20            | Max. 0,15                                                                                                                                                                                                                                                                                              | 0,10 – 0,6<br>Mn+Cr | 0,05           | 0,15  |
| <div>Mechanical properties: EN 755-2:2016</div>                                                                                                                                                                                                                                                       |                      |                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                  |                                                                                                                                                                                                     |                        |                      |                                                                                                                                                                                                                                                                                                        |                     |                |       |
| Temper                                                                                                                                                                                                                                                                                                | Dimensions Diameter  |                         | Tensile Stress<br>R <sub>m</sub>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                  | Proof Stress<br>R <sub>p0,2</sub>                                                                                                                                                                   |                        | Elongation<br>Min. % |                                                                                                                                                                                                                                                                                                        | Hardness<br>HBW     |                |       |
|                                                                                                                                                                                                                                                                                                       | mm                   |                         | MPa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                  | MPa                                                                                                                                                                                                 |                        | A <sub>50mm</sub>    |                                                                                                                                                                                                                                                                                                        | A                   |                |       |
|                                                                                                                                                                                                                                                                                                       | ≤ 150                |                         | Min. 180                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                  | Min. 80                                                                                                                                                                                             |                        | 12                   |                                                                                                                                                                                                                                                                                                        | 14                  |                | 47    |
| H112                                                                                                                                                                                                                                                                                                  | 150 < D ≤ 250        |                         | Min. 180                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                  | Min. 70                                                                                                                                                                                             |                        | -                    |                                                                                                                                                                                                                                                                                                        | 13                  |                | 47    |
| <div>* Information values only;</div>                                                                                                                                                                                                                                                                 |                      |                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                  |                                                                                                                                                                                                     |                        |                      |                                                                                                                                                                                                                                                                                                        |                     |                |       |
| <div>Physical properties:</div>                                                                                                                                                                                                                                                                       |                      |                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                  |                                                                                                                                                                                                     |                        |                      |                                                                                                                                                                                                                                                                                                        |                     |                |       |
| Density                                                                                                                                                                                                                                                                                               | Solidification range | Electrical conductivity | Thermal conductivity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Thermal expansion                                                                                                                                                                                                                | Annealing temperature                                                                                                                                                                               | E - modulus            |                      |                                                                                                                                                                                                                                                                                                        |                     |                |       |
| g/cm <sup>3</sup>                                                                                                                                                                                                                                                                                     | °C                   | %IACS                   | W/m K                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | (µm m <sup>-1</sup> K <sup>-1</sup> )                                                                                                                                                                                            | °C                                                                                                                                                                                                  | (N / mm <sup>2</sup> ) |                      |                                                                                                                                                                                                                                                                                                        |                     |                |       |
| 2,66                                                                                                                                                                                                                                                                                                  | 610 – 640            | 32,5                    | 132                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 23,7                                                                                                                                                                                                                             | 330 - 360                                                                                                                                                                                           | 70500                  |                      |                                                                                                                                                                                                                                                                                                        |                     |                |       |
| <div>Properties and information's (3 high/good; 2 Middle; 1 Poor/bad)</div>                                                                                                                                                                                                                           |                      |                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                  |                                                                                                                                                                                                     |                        |                      |                                                                                                                                                                                                                                                                                                        |                     |                |       |
| <div>Resistance:</div> <div>Corrosion index, general: 3</div> <div>Marine Atm. Corr index: 3</div> <div>Hot workability:</div> <div>Extrusion: 2</div> <div>Forging: 2</div> <div>Cold formability:</div> <div>Cold formability general: 2</div> <div>Deep drawing: 2</div> <div>Bending: 2 – 3</div> |                      |                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <div>Weldability</div> <div>TIG welding: 3</div> <div>MIG welding: 3</div> <div>Solderability</div> <div>Brazability index: 1</div> <div>Solderability index: 1</div> <div>Machinability</div> <div>Machinability index: 3</div> |                                                                                                                                                                                                     |                        |                      | <div>Anodizing:</div> <div>Decorative anodizing surface treatment: 1</div> <div>Protective anodizing index: 3</div> <div>Hard anodizing: 3</div> <div>Color anodizing: 2</div> <div>General Information:</div> <div>Decorative Anodizing can be a challenge due to the composition of the alloy.</div> |                     |                |       |