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| Data Sheet:                                                                                                                                                          |           |                                                                                                                                                                                                                |                        |              | Internal alloy name: 6060                                                                                                                                                                                                                                                                                                                                                                                                                                       |                        |      |             |                                           |             |
| EN AW 6060 - Profiles                                                                                                                                                |           |                                                                                                                                                                                                                |                        |              | International alloy name : EN AW 6060                                                                                                                                                                                                                                                                                                                                                                                                                           |                        |      |             |                                           |             |
| Alumeco A/S                                                                                                                                                          |           |                                                                                                                                                                                                                |                        |              | Chemical Symbol: EN AW – AlMgSi                                                                                                                                                                                                                                                                                                                                                                                                                                 |                        |      |             |                                           |             |
|                                                                                                                                                                      |           |                                                                                                                                                                                                                |                        |              | DIN-Werkstoff no.: 3.3206                                                                                                                                                                                                                                                                                                                                                                                                                                       |                        |      |             |                                           |             |
|                                                                                                                                                                      |           |                                                                                                                                                                                                                |                        |              | Alloy type: Heat treatable alloy                                                                                                                                                                                                                                                                                                                                                                                                                                |                        |      |             |                                           |             |
| Main usage:                                                                                                                                                          |           | Main properties:                                                                                                                                                                                               |                        |              | Important norms and literature:                                                                                                                                                                                                                                                                                                                                                                                                                                 |                        |      |             |                                           |             |
| <ul style="list-style-type: none"><li>• Constructions</li><li>• Anodizing in general</li><li>• Automotive</li><li>• Forgings</li><li>• Marine and offshore</li></ul> |           | <ul style="list-style-type: none"><li>• Very good atmospheric corrosion resistance</li><li>• Very good workability</li><li>• Decoration anodisation</li><li>• Heat treatable alloys (Soft T4 temper)</li></ul> |                        |              | <div>Extrusion:</div> <div>EN755-1: Technical conditions for inspection and delivery</div> <div>EN755-2: Mechanical properties</div> <div>Series EN755-3 to EN755-9: Tolerances on dimensions and forms for different extrusions</div> <div>Usages:</div> <div>EN 13195: Specifications for wrought products for marine applications</div> <div>EN 602: Usage for food industry</div> <div>Chemical composition:</div> <div>EN573-3: Chemical composition</div> |                        |      |             |                                           |             |
| Chemical composition. EN573-3:2009                                                                                                                                   |           |                                                                                                                                                                                                                |                        |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                        |      |             |                                           |             |
| Si                                                                                                                                                                   | Fe        | Cu                                                                                                                                                                                                             | Mn                     | Mg           | Cr                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Zn                     | Ti   | Remarks     | Other elements                            |             |
|                                                                                                                                                                      |           |                                                                                                                                                                                                                |                        |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                        |      |             | Each                                      | together    |
| 0,30-0,6                                                                                                                                                             | 0,10-0,30 | 0,10                                                                                                                                                                                                           | 0,10                   | 0,35-0,6     | 0,05                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0,15                   | 0,10 | N/A         | 0,05                                      | 0,15        |
| Typical mechanical properties. EN755 - 2                                                                                                                             |           |                                                                                                                                                                                                                |                        |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                        |      |             |                                           |             |
| Product group                                                                                                                                                        |           | Temper                                                                                                                                                                                                         |                        | Rm           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Rp0,2                  |      | A           |                                           | Hardness*   |
| Dimension (mm)                                                                                                                                                       |           |                                                                                                                                                                                                                |                        | MPa          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | MPa                    |      | %           |                                           | HB          |
| Rod/Bar ≤ 150                                                                                                                                                        |           | T4                                                                                                                                                                                                             |                        | Min. 120     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Min. 60                |      | 16          |                                           | 50          |
| Rod/Bar ≤ 150                                                                                                                                                        |           | T6                                                                                                                                                                                                             |                        | Min. 190     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Min. 150               |      | 8           |                                           | 70          |
| Rod/Bar ≤ 150                                                                                                                                                        |           | T66                                                                                                                                                                                                            |                        | Min. 215     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Min. 160               |      | 8           |                                           | 75          |
| Tubes                                                                                                                                                                |           | T6                                                                                                                                                                                                             |                        | Min. 190     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Min. 150               |      | 8           |                                           | 70          |
| Wall thickness ≤ 15                                                                                                                                                  |           |                                                                                                                                                                                                                |                        |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                        |      |             |                                           |             |
| Profiles                                                                                                                                                             |           | T4                                                                                                                                                                                                             |                        | Min. 120     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Min. 60                |      | 16          |                                           | 50          |
| Wall thickness ≤ 25                                                                                                                                                  |           |                                                                                                                                                                                                                |                        |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                        |      |             |                                           |             |
| Profiles                                                                                                                                                             |           | T6                                                                                                                                                                                                             |                        | Min. 170     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Min. 140               |      | 8           |                                           | 70          |
| Wall thickness 3 < t ≤ 25                                                                                                                                            |           |                                                                                                                                                                                                                |                        |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                        |      |             |                                           |             |
| Profiles                                                                                                                                                             |           | T66                                                                                                                                                                                                            |                        | Min. 195     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Min. 150               |      | 8           |                                           | 75          |
| Wall thickness 3 < t ≤ 25                                                                                                                                            |           |                                                                                                                                                                                                                |                        |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                        |      |             |                                           |             |
| * Information values only;                                                                                                                                           |           |                                                                                                                                                                                                                |                        |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                        |      |             |                                           |             |
| Physical properties:                                                                                                                                                 |           |                                                                                                                                                                                                                |                        |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                        |      |             |                                           |             |
| Density                                                                                                                                                              |           | Solidification                                                                                                                                                                                                 |                        | Electrical   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Thermal                |      | Thermal     |                                           | E - modulus |
| g/cm³                                                                                                                                                                |           | range                                                                                                                                                                                                          |                        | conductivity |                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | conductivity           |      | expansion   |                                           | (N / mm²)   |
|                                                                                                                                                                      |           | °C                                                                                                                                                                                                             |                        | %IACS        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | W/m K                  |      | Annealing   |                                           |             |
|                                                                                                                                                                      |           |                                                                                                                                                                                                                |                        |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                        |      | temperature |                                           |             |
| 2,70                                                                                                                                                                 |           | 645-658                                                                                                                                                                                                        |                        | 54           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 209                    |      | 23,4        |                                           | 69.500      |
| 300°C                                                                                                                                                                |           |                                                                                                                                                                                                                |                        |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                        |      |             |                                           |             |
| Typical Alumeco products with this alloy                                                                                                                             |           |                                                                                                                                                                                                                |                        |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                        |      |             |                                           |             |
| <ul style="list-style-type: none"><li>• Bars in various dimensions and form</li><li>• Angle profiles</li><li>• Tubes</li><li>• Profiles</li></ul>                    |           |                                                                                                                                                                                                                |                        |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                        |      |             |                                           |             |
| Properties and information's (3 high/good; 2 Middle; 1 Poor/bad)                                                                                                     |           |                                                                                                                                                                                                                |                        |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                        |      |             |                                           |             |
| Resistance:                                                                                                                                                          |           |                                                                                                                                                                                                                | Weldability            |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Machinability          |      |             | Anodizing:                                |             |
| Corrosion index, general: 3                                                                                                                                          |           |                                                                                                                                                                                                                | TIG welding: 2         |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Machinability index: 3 |      |             | Decorative anodizing surface treatment: 3 |             |
| Marine Atm. Corr index: 3                                                                                                                                            |           |                                                                                                                                                                                                                | MIG welding: 2         |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                        |      |             | Protective anodizing index: 3             |             |
| Hot workability:                                                                                                                                                     |           |                                                                                                                                                                                                                | Solderability          |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Tips on machinability: |      |             | Hard anodizing: 3                         |             |
| Extrusion: 3                                                                                                                                                         |           |                                                                                                                                                                                                                | Brazability index: 2   |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                        |      |             | Color anodizing: 3                        |             |
| Forging: 3                                                                                                                                                           |           |                                                                                                                                                                                                                | Solderability index: 2 |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                        |      |             | General Information:                      |             |
| Cold formability:                                                                                                                                                    |           |                                                                                                                                                                                                                |                        |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                        |      |             |                                           |             |
| Cold formability general: 2                                                                                                                                          |           |                                                                                                                                                                                                                |                        |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                        |      |             |                                           |             |
| Deep drawing: 1                                                                                                                                                      |           |                                                                                                                                                                                                                |                        |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                        |      |             |                                           |             |
| Bending: 2 – 3 (Depending on the temper)                                                                                                                             |           |                                                                                                                                                                                                                |                        |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                        |      |             |                                           |             |