

Data Sheet Internal alloy name: 6063 EN AW 6063 - Profiles International alloy name: **EN AW 6063** EN AW - AIMg0,7Si **Chemical Symbol:** DIN-Werkstoff no.: 3.3208 Alumeco A/S Alloy type: Heat treatable alloy Main usage Main properties Important norms and literature Usages: EN 13195: Specifications for wrought products for marine applications EN 602: Usage in the food industry Extrusion: EN 755-1: Technical conditions for Constructions · Very good atmospheric corrosion resistance
• Very good workability Anodizing in general inspection and delivery Automotive EN 755-2: Mechanical properties Series EN 755-3 to EN 755-9: Tolerances Decoration anodisation **Forgings** Marine and offshore • Heat treatable alloys (Soft T4 on dimensions and forms for different Chemical composition: EN 573-3: Chemical composition Chemical composition (%) EN 573-3 Fe Cu Mg Cr Zn Ti Other elements Each together 0.20-0.60 0.35 0.10 0.10 0.45-0.90 0.10 0.10 0.10 0.05 0.15 Typical mechanical properties EN 755 - 2 Product group Temper Rm $Rp_{0,2} \\$ Hardness* Dimension (mm) % min. HB **MPa** MPa Rod/Bar ≤ 150 Min. 130 **T4** Min. 65 14 50 Rod/Bar ≤ 150 T6 Min. 215 Min. 170 10 75 Tubes **T6** Min. 215 Min. 170 10 75 Wall thickness ≤ 25 T4 Min. 130 14 50 **Profiles** Min. 65 Wall thickness ≤ 25 **T6** Min. 215 Min. 170 8 75 **Profiles** Wall thickness ≤ 10 **Physical properties** Electrical Thermal Solidification Thermal **Annealing** E - modulus Density conductivity conductivity expansion temperature °C g/cm³ (N / mm²) range W/m K (µm m-1 K-1) %IACS 2.70 615-655 201 23.5 350-400 69.500 Typical Alumeco products with this alloy Bars in various dimensions and form Angle profiles Tubes **Profiles Customized profiles** Properties and information (3 high/good; 2 medium; 1 poor/bad) Weldability Machinability Anodizing Resistance Corrosion index, general: 3 TIG welding: 2 Machinability index: 1 Decorative anodizing surface Marine atm. corr. index: 3 MIG welding: 2 treatment: 3 Protective anodizing index: 3 Hard anodizing: 3 Hot workability Extrusion: 3 Color anodizing: 3 Solderability Forging: 3

Cold formability
Cold formability general: 2
Deep drawing: 1

temper)

Bending: 2 - 3 (Depending on the