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|--|--|--|--|--|--------------------------------|--|-------|----------------|
| Data sheet CW602N/ CuZn36Pb2As Alumecco A/S | | Internal alloy name: CW602N International alloy name: CuZn36Pb2As DIN-Werkstoff no.: - Alloy type: - Revision date: 19-01-2021 | | | | | | |
| Main usage <ul style="list-style-type: none"> Fittings, sanitary industry Pipe connector Mold turned parts Electrical engineering Machine and vehicle construction | Main properties <ul style="list-style-type: none"> Optimum combination of stress and hot-pressing behavior Good cold formability Easy to machine | Important norms and literature EN12164: Copper and copper alloys. Rod for free machining purposes EN12165: Copper and copper alloys. Wrought and unwrought forging stock EN12167: Copper and copper alloys. Profiles and bars for general purposes | | | | | | |
| Chemical composition (%) DIN EN | | | | | | | | |
| Cu | Al | As | Fe | Ni | Pb | Sn | Zn | Other elements |
| 61,0-63,0 | Max. 0,05 | 0,02- 0,15 | Max. 0,1 | Max. 0,3 | 1,7-2,8 | Max 0,1 | Rest. | Max. 0,2 |
| Typical mechanical properties DIN EN | | | | | | | | |
| Material condition | As Manufactured | | | | | | | |
| M | | | | | | | | |
| <small>** Information values only</small> | | | | | | | | |
| Physical properties | | | | | | | | |
| Density (20 °C) g cm ⁻³ | Solidification range °C | Electrical conductivity %IACS | Thermal conductivity (20 °C) W m ⁻¹ K ⁻¹ | Thermal expansion (20- 300 °C) µm m ⁻¹ K ⁻¹ | Annealing temperature °C | E - modulus (20 °C) N mm ⁻² | | |
| 8.43 | 910 | 26 | 117 | - | 450-650 | 106,000 | | |
| Properties and information | | | | | | | | |
| Fabrication Properties | | Joining Methods | | | | | | |
| Hot Formability | Very Good | Soldering | Excellent | | | | | |
| Cold Formability | Good | Brazing | Good | | | | | |
| | | Oxy-acetylene welding | Not Recommended | | | | | |
| | | Gas-shielded arc welding | Not Recommended | | | | | |