DATA SHEET

# Aluminiumbronze | Plates

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|---|---|
| **Alloy** | Cu Al 10 Ni 5 Fe 4, CW307G |
| **Method of Manufacture** | hot rolled |
| **Specification** | EN 1653 |
| **Tolerance** | EN 1653 |
| | thickness 3 mm +0,7/-0.3 mm |
| | thickness 4-5 mm +/-0.3 mm |
| | thickness 6 mm +/-0.4 mm |
| | thickness 8-10 mm +/-0.5 mm |
| | thickness 12-15 mm +/-0.8 mm |
| | thickness 20-25 mm +/-1.05 mm |
| **Temper** | R620 |
| **Machinability** | moderate, similar to steel of same hardness |
| **Hot Working** | good |
| **Cold Working** | not good, only after soft annealing |
| **Corrosion Resistance** | very good versus most media, incl. sea water |
| **REACH** | no obligations |
| **RoHS** | conformal |

## Mechanical Properties

| | Tensile strength $R_m$ | Yield stress $R_{p\,0,2}$ | Elongation A | Hardness HB |
|---|---|---|---|---|
| **M** | as obtained | | | |
| **R590** | ≥ 590 N/mm² | ≥ 230 N/mm² | ≥ 14 % | |
| **R620** | ≥ 620 N/mm² | ≥ 250 N/mm² | ≥ 14 % | |

## Chemical Composition

Cu Rest
Al 8.5-11.0 %
Ni 4.0-6.0 %
Fe 3.0-5.0 %

Impurities, max.:
Mn 1.0 %, Pb 0.05 %, Si 0.2 %, Sn 0.1 %, Zn 0.4 %, other 0.2 %

High strength even at higher temperatures up to approx. 400°C. High fatigue strength even when exposed to corrosion. Resistant to neutral and acid, watery media as well as seawater. Good resistance to scaling, erosion and cavitation. Very high wear resistance. Good sliding properties in conjunction with mating material with hard surfaces and perfect lubrication. Plates for condenser and heat exchanger sheets. Shafts, screws, wear parts, control parts for hydraulics, high-pressure steam fittings. Mechanically and chemically stressed parts in mechanical engineering, shipbuilding and mining.

## Comparable Specifications

Cu Al 10 Ni 5 Fe 4, 2.0966, DIN 17 665
C 63 200, C 63 000 UNS
CA 104, BS 2872, 2874, 2875

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