# Werkstoffdatenblatt

# ALBROMET-A260Ni

| ALBROMET-A260Ni | Aluminum bronze |
|---|---|
| Material properties | Tough construction material with good sliding properties; insensitive to shock and impact; high corrosion resistance to neutral, basic, and aqueous acidic media as well as seawater; high resistance to cavitation |
| Application examples | Drive components with high loads; gears; plain bearings for high static or dynamic loads; worm gears, valve guides, bolts and nuts for corrosive environments; components in chemical, marine and food industries |
| Processing | Easy to machine, use of carbide tools recommended, good weldability (CuAl or NiAl-based filler materials), brazing possible, easy to polish |
| Typical analysis | <table><tr><td>Cu</td><td>Al</td><td>Fe</td><td>Ni</td><td>Mn</td><td>Cr</td><td>Pb</td><td>Others</td></tr><tr><td>Remaining</td><td>10.5-12 %</td><td>5-7 %</td><td>5-7 %</td><td>< 1.5 %</td><td>< 0.5 %</td><td>< 0.02 %</td><td>< 0.5 %</td></tr></table> |
| Standards/Specifications | CuAl11Fe6Ni6, 2.0978 (DIN 17665 withdrawn, replaced by:)<br>CW308G (DIN EN 12163, DIN EN 12164, DIN EN 12420)<br>C63020 (ASTM B150, ASTM B124)<br>Certified for use in the food industry (certificate of compliance) |
| Delivery formats | Plates, round bars, cut to length pieces; rings, finished parts according to drawings |

| Mechanical and physical properties | forged / extruded / pressed |
|---|---|
| Hardness Brinell (HBW 10/3000) | 220 – 280 |
| Hardness Vickers (HV10, converted) | 240 - 295 |
| Tensile strength $R_m$ | 700 - 950 MPa |
| Yield strength $R_{P0,2}$ | > 420 MPa |
| Elongation at break $A_5$ | > 5 % |
| Elasticity modulus E | 124 GPa |
| Compressive strength | 1,150 MPa |
| Density | 7.6 g/cm$^3$ |
| Mean linear coefficient of thermal expansion | 16.0 10$^{-6}$/K |
| Thermal conductivity at 20° C | 42 W/m*K |
| Electrical conductivity at 20 °C | 4.7 m/Ohm*mm$^2$; 8,1 % I.A.C.S |
| Thermal stability | < 300 °C until there is a significant change in strength |
| Melting range | Solidus ~ 1060 °C and Liquidus ~ 1080 °C |
| Magnetic permeability | 1.17 H = 100 Oe |

These data are based on information provided by our supplier, all changes reserved. The mechanical strength values are typical standard values and depend on the dimension and the production method (Status: 03/2026).

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