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Standards/Specifications	CuAl11Fe6Ni6, 2.0978 (DIN 17665 withdrawn, replaced by:) CW308G (DIN EN 12163, DIN EN 12164, DIN EN 12420) C63020 (ASTM B150, ASTM B124) Certified for use in the food industry (certificate of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
Softening temperature	> 300 °C a significant change in strength values occurs
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: 07/2026).

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