

Material data sheet

ALBROMET-A260Ni

ALBROMET-A260Ni	Aluminum bronze
Material properties	Hard and tough construction and sliding material with high resistance to corrosion, cavitation and mechanical wear.
Application examples	Highly loaded bearing- and machine parts
Machining notes	Can be machined perfectly with carbide tools. Limited weldability due to heat treatment (hardness reduction)
Typical analysis	Al 11,5 % Fe 5,0 % Ni 6,0 % Mn 0,6 % Others 0,5 % max. Cu Rest
Standards/Specifications	CuAl11Fe6Ni6 EN CW 308 G DIN 17665/2.0978 AMS 4590
Delivery formats:	Forged parts, Extruded rods, Semi-finished products, Finished parts based on drawings

Mechanical and physical properties	forged	extruded
Hardness Brinell (HB 30)	220 – 260	220 – 260
Tensile strength R _m	800 N/mm ²	800 N/mm ²
Yield strength R _{p0,2}	500 N/mm ²	600 N/mm ²
Elongation at break A5	> 4 %	> 8 %
Density	7,6 g/cm ³	
Compressive strength	1.150 MPa	
Elasticity modulus E	127,5 kN/mm ²	
Mean linear coefficient of thermal expansion	16,0 10 ⁻⁶ /K	
Thermal conductivity at 20° C	40 W/m*K	
Electrical conductivity	4,06 m/Ohm*mm ²	
Temperature resistance	< 300° C up to clear change in strength value	
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 depends on the measurement and the production method. (Version: 07/2024).