Material data sheet

ALBROMET-A200

ALBROMET-A200	Aluminum bronze
Material properties	Tough-hard material with high strength and good wear resistance. Excellent sliding properties and corrosion-resistance
Application examples	Bearing bushes, guides, gear and worm wheels, spindle nuts, valve seats, slide blocks in rolling mills, screws and nuts for corrosion applications. Ideal wear partner for many types of steel. Mainly used in general mechanical engineering, in rolling mill machines and in plastic mold making
Machining notes	Good to machine. For extensive chipping we recommend carbide tools. Good to weld.
Typical analysis	Al 11,0 % Fe 4,0 % Other 0,5 % max. Cu Remaining
Standards/Specifications	CuAl10Fe EN 1982 DIN 1714 ASTM B505 C95400
Delivery formats	Forged parts, Castings, Extruded and HCC rods, Semi-finished products, Finished parts based on drawings

Mechanical and physical properties	forged / extruded	continuous casting
Hardness Brinell (HB 30)	190 – 210	170 - 190
Tensile strength R_m	630 – 700 N/mm²	< 586 N/mm²
Yield strength $R_{P0,2}$	310 – 350 N/mm²	221 N/mm²
Elongation at break A5	10 – 15 %	12 – 15 %
Density	7,5 g/cm³	
Compressive strength	950 MPa	
Elasticity modulus E	117,7 kN/mm²	
Mean linear coefficient of thermal expansion	16,0 10^{-6}/K	
Thermal conductivity at 20° C	60 W/m*K	
Electrical conductivity	7,54 m/Ohm*mm²	
Temperature resistance	< 300° C up to clear change in strength value	
Magnetic permeability	1,18 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).

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