Material data sheet

ALBROMET-A200

ALBROMET-A200	Aluminum bronze
Material properties	Tough material with excellent sliding properties, high strength, and good wear resistance, corrosion resistant, dynamically resilient, temperature resistant, lead-free alternative to brass, low nickel content
Application examples	Bearing bushings, guides, gear wheels, worm gears, valve seats, sliding plates, plain bearings, screws, and nuts for corrosion applications. Ideal wear partner for many types of steel and stainless steel; Industries: Mechanical engineering, vehicle construction, food technology, tool and mold making, forming technology, marine, jewelry industry, medical technology
Processing	Easy to machine, use of carbide tools recommended, good weldability (CuAl or NiAl-based filler materials), brazing possible
Typical analysis	<table><tr><td>Cu</td><td>Al</td><td>Fe</td><td>Pb</td><td>Others</td></tr><tr><td>Remaining</td><td>9 - 11 %</td><td>3 - 4 %</td><td>< 0.02 %</td><td>< 0.5 %</td></tr></table>
Standards/Specifications	CuA10Fe3, non-standardised, ~ 2.0936 (DIN 17665 withdrawn, replaced by:) ~ CW306G (DIN EN 12163, DIN EN 12164, DIN EN 12167, DIN EN 12168, DIN EN 12420) ~ CC331G (DIN EN 1982) ~ C95400 (ASTM B505); ~ C62400 (ASTM B150, ASTM B124) Certified for use in the food industry (certificate of compliance)
Delivery formats	Plates, round bars, flat bars, square bars, hollow bars, tubes, cut to length pieces; rings, finished parts according to drawings

Mechanical and physical properties	forged / extruded / pressed	continuous casting
Hardness Brinell (HBW 10/3000)	180 – 210	160 – 190
Hardness Vickers (HV10, converted)	190 - 220	170 - 200
Tensile strength R_m	630 – 750 MPa	500 - 700 MPa
Yield strength $R_{P0,2}$	> 300 MPa	> 200 MPa
Elongation at break A_5	> 10 %	> 10 %
Elasticity modulus E	115 GPa	
Compressive strength	950 MPa	
Density	7.5 g/cm^3	
Mean linear coefficient of thermal expansion	16.0 10^{-6}/K	
Thermal conductivity at 20° C	60 W/m*K	
Electrical conductivity at 20 °C	7.5 m/Ohm*mm^2 ; 14 % I.A.C.S	
Softening temperature	> 300 °C a significant change in strength values occurs	
Melting range	Solidus ~ 1040 °C and Liquidus ~ 1080 °C	

These data are based on information provided by our supplier, all changes reserved. The mechanical strength values are typical standard Valies and depend on the dimension and the production method (Status: 07/2026).

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