Material data sheet

ALBROMET-A380

ALBROMET-A380	Aluminum bronze
Material properties	Highest possible hardness (brittle hard), high abrasion resistance and compressive strength, excellent sliding properties.
Application examples	Sliding partner for hardened steel grades, forming tools for bending, embossing, profiling and deep drawing of stainless steel sheets and tubes.
Machining notes	Mechanical processing only with carbide-tipped tools. Material can only be welded to a limited extent
Typical analysis	Al 15,0 % Fe 5,0 % Others 2,0 – 4,0 % max. Cu Rest
Standards/Specifications	Not standardized
Delivery formats	Forgings, castings, semi-finished products, finished parts according to drawing

Mechanical and physical properties	
Hardness Brinell (HB 30)	360 – 390
Tensile strength R_m	≥ 680 N/mm²
Yield strength $R_{P0,2}$	≥ 560 N/mm²
Elongation at break A5	0,5 %
Density	7,2 g/cm³
Compressive strength	1.500 MPa
Elasticity modulus E	120,0 kN/mm²
Mean linear coefficient of thermal expansion	17,5 10^{-6}/K
Thermal conductivity at 20° C	34 W/m*K
Electrical conductivity	3,48 m/Ohm*mm²
Temperature resistance	< 300° C up to clear change in strength value
Magnetic permeability	1,03 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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