

Material data sheet

ALBROMET-A340

ALBROMET-A340	Aluminum bronze
Material properties	Very high compressive strength, good sliding properties, high hardness with low elongation, not impact and shock resistant.
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 is only conditionally weldable.
Typical analysis	Al 14,0 % Fe 4,0 % Others 2,0 % max. Cu Rest
Standards/Specifications	Not standardized
Delivery formats	Forged parts, Castings, Extruded rods, Semi-finished products, Finished parts based on drawings

Mechanical and physical properties	
Hardness Brinell (HB 30)	320 – 360
Tensile strength R_m	$\geq 630 \text{ N/mm}^2$
Yield strength $R_{p0,2}$	$\geq 500 \text{ N/mm}^2$
Elongation at break A5	0,5 %
Density	7,1 g/cm ³
Compressive strength	1.300 MPa
Elasticity modulus E	105,5 kN/mm ²
Mean linear coefficient of thermal expansion	17,5 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	1,12 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).