

ALBROMET 300 HSC		Data sheet aluminiumbronze	
Material properties:		Aluminiumbronze with high compressive strength and comparatively high ductility. Excellent wear resistance and small affinity for stainless steel pick-up. Due to the production process, a notably fine-grained, homogeneous structure is achieved.	
Application examples:		Check rail for hardened steel, tools for sheet forming particularly of stainless steel qualities.	
Machining tips:		Chip breaking intermixtures, which are superfine spread in the material, improve the machining with carbide tools clearly. That is what the acronym HSC (High Speed Cuttings) means.	
Typical analysis:		Al 13,2 % Fe 4,5 % Mn 1,0 % Co 1,0 % Cu Balance	
Standards/Specifications:		Not standardized	
Delivery formats:		Forged parts (forged), Extruded rods, Semi-finished products (extruded), Finished parts based on drawings	
Mechanical and physical properties:			
Brinell hardness (HB 30)		290 - 320	
Tensile strength Rm		> 900 N/mm ²	
Yield strength Rp 0,2		> 350 N/mm ²	
Elongation at break A5		5 %	
Density		7,2 g/cm ³	
Compressive strength		1150 Mpa	
Elasticity modulus E		105,0 KN/mm ²	
Mean linear coefficient of thermal expansion		17,5 10 ⁻⁶ /K	
Thermal conductivity at 20° C		42 W/m x k	
Electrical conductivity		4 MS/m oder 7 % IACS	
Temperature resistance		< 300° C up to the clear change in strength value	
Melting range		1035-1045 °C	
Hot forming		620-730 °C	
Relative permeability		1,0125 H = 100 Oe	

This data is based on information provided by our supplying plants. All changes reserved. The mechanical strength values are typical standard values and depend on the measurement and the production method.

Version 11/2013