

ALBROMET 300 HSC	Data sheet aluminiumbronze
<b>Material properties:</b>	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.
<b>Application examples:</b>	Check rail for hardened steel, tools for sheet forming particularly of stainless steel qualities.
<b>Machining tips:</b>	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.
<b>Typical analysis:</b>	Al 13,2 % Fe 4,5 % Mn 2,5 % Co 2,5 % Cu Balance
<b>Standards/Specifications:</b>	Not standardized
<b>Delivery formats:</b>	Semi-finished products (Round material and Flat bars), Finished parts according drawing
<b>Mechanical and physical properties:</b>	
Brinell hardness (HB 30) Tensile strength Rm Yield strength Rp 0,2 Elongation at break A5 Density Compressive strength Elasticity modulus E Mean linear coefficient of thermal expansion Thermal conductivity at 20° C Electrical conductivity  Temperature resistance  Melting range Hot forming Relative permeability	290 - 320 > 900 N/mm <sup>2</sup> > 350 - 400 N/mm <sup>2</sup> > 3 % 7,2 g/cm <sup>3</sup> 1150 Mpa 105,0 KN/mm <sup>2</sup> 17,5 10 <sup>-6</sup> /K 42 W/m x k 4 MS/m oder 7 % IACS  < 300° C up to the clear change in strength value  1035-1045 °C 620-730 °C 1,0125 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.  
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