

ALBROMET 380 HSC	Data sheet aluminiumbronze
<b>Material properties:</b>	Aluminiumbronze with extreme high hardness and compressive strength, excellent wear resistance and small affinity for stainless steel pick-up, unsuitable for impact loading, due to the production process, a notably fine-grained, homogeneous structure is achieved.
<b>Application examples:</b>	Sliding partner for hardened steel grades, forming tools for bending, embossing, profiling and thermoforming of stainless steel plates and tubes.
<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. Recommendation: <i>Hoffmann GmbH, München</i> <i>Tel. 089-8391-0, Fax: 089-8391-89</i> <i>www.hoffmann-group.com</i> <i>Wellding is restricted possible.</i>
<b>Typical analysis:</b>	Al 14,8 % Fe 4,5 % Mn 2,0 % Co 2,0 % Cu Balance
<b>Standards/Specifications:</b>	Not standardized
<b>Delivery formats:</b>	Semi-finished products (Round material), 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  Relative permeability	370 - 400 > 650 N/mm <sup>2</sup> > 400 N/mm <sup>2</sup> 2 % 7,0 g/cm <sup>3</sup> > 1300 Mpa 120 KN/mm <sup>2</sup> 17,5 10 <sup>-6</sup> /K 35 W/m x k 3,48 m/Ohm x mm <sup>2</sup>  < 300° C up to the clear change in strength value  1,0015 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 10/2017