

<b>ALBROMET-W 200</b>	<b>Data sheet high-conductivity copper</b>
<b>Material properties:</b>	Heat-treated copper alloy with high value for strength and conductance. Beryllium free.
<b>Application examples:</b>	Electrodes for resistance welding, dies, die casting ram. In plastics mould making: mould inserts for thermal demands.
<b>Machining tips:</b>	Machine with HSS or carbide tools (P-quality). Pay attention for adequate cooling! The machining should happen in the delivery state (factory-provided cured). EDM can be advised. Please find our machining instructions on <a href="http://www.albromet.de">www.albromet.de</a>
<b>Typical analysis:</b>	Ni 2,5 % Si 0,7 % Cr 0,4 % Cu Balance
<b>Standards/Specifications:</b>	CuNiCrSi EN CW 112 C / ~ CW 111 C DIN 2.0857 / ~ 2.0855
<b>Delivery formats:</b>	Forged parts, Extruded rods, Semi-finished products, Finished parts based on drawings
<b>Mechanical and physical properties:</b>	
Brinell hardness (HB 30) Tensile strength $R_m$ Yield strength $R_p 0,2$ Elongation at break A5 Density Liquidus Softening point Elasticity modulus E Mean linear coefficient of thermal expansion Thermal conductivity at 20° C Electrical conductivity	190-220 >600 N/mm <sup>2</sup> 500 N/mm <sup>2</sup> >10 % 8,8 g/cm <sup>3</sup> 1150 °C ~480 °C 140 KN/mm <sup>2</sup> 16,0 10 <sup>-6</sup> /K ~200 W/m x k 22 m/Ohm x mm <sup>2</sup>

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