

ALBROMET-W 240	Data sheet high-conductivity copper	
Material properties:	Heat-treated beryllium-copper alloy with heightened values of strength and conductivity.	
Application examples:	Electrode material for resistance stud welding, chill-mould, die casting ram. In plastics mould making: mould inserts for thermal demands, mould cores, mould inserts, hot runner nozzles.	
Machining tips:	Machine with HSS or carbide-equipped tools (P quality). Dust or Steam must be avoided or aspirated. Machine in wet state. Pay attention for adequate cooling! EDM is restricted possible.	
Typical analysis:	EN CW 103 C Co 0,8-1,3 % Ni 0,8-1,3 % Be 0,4-0,7 % Fe max. 0,2 % Si max. 0,2 % Cu Balance	EN CW 104 C Co 2,0-2,8 % Be 0,4-0,7 % Ni+Fe max. 0,5 % Cu Balance
Standards/Specifications:	CuCo1Ni1Be / CuCo2Be EN CW 103 C / EN CW 104 C Typ A 3/1 DIN similar 2.1285 / DIN 2.1285	
Delivery formats:	Forged parts, Semi-finished products, Finished parts based on drawings	
Mechanical and physical properties:		
Brinell hardness (HB 30)	230 - 260	
Tensile strength R_m	650 N/mm ²	
Yield strength $R_p 0,2$	500 N/mm ²	
Elongation at break A5	>8 %	
Density	8,8 g/cm ³	
Liquidus	1050 °C	
Softening point	~480 °C	
Elasticity modulus E	135 KN/mm ²	
Mean linear coefficient of thermal expansion	17,2 10 ⁻⁶ /K	
Thermal conductivity at 20° C	~240 W/m x k	
Electrical conductivity	25 m/Ohm x mm ²	

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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