

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 % Sonst. 0,5 % Cu Balance	EN CW 104 C Co 2,0-2,8 % Be 0,4-0,7 % Ni+Fe max. 0,5 % Sonst. 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	

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.

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