Material data sheet

ALBROMET-W164

ALBROMET-W164	High-strength copper alloy, beryllium-free
Material properties	Innovative, beryllium-free, high-strength copper alloy with an ideal combination of properties such as high thermal conductivity, hardness and wear resistance. Beryllium-free alternative to CuBe2.
Application examples	Injection moulds, blow moulds, hot runner systems, Plastic mould construction, moulded parts for non-ferrous metal injection moulding, Valve guides, valve seats, piston rings, Electrode holders, welding equipment
Machining notes	The material is generally supplied in hardened and tempered condition and can be machined with standard carbide-tipped tools.
	Spark erosion possible to a limited extent: Due to the high conductivity, higher electrode erosion and longer run time than with steel.
Typical analysis	CuNiCrSi exact analysis is not disclosed
Standards/Specifications	Not standardized
Delivery formats	Forged parts, semi-finished products, finished parts according to drawing

Mechanical and physical properties		
260 – 285		
860 N/mm ²		
720 N/mm ²		
5 %		
8,8 g/cm³		
~ 450° C		
144,8 kN/mm²		
15,7 10 ⁻⁶ /K		
~ 164 W/m*K		
20 m/Ohm*mm² 35 % IACS		
8 7 5 8 1!		

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: 07/2024).

