



TECHNICAL DATA SHEET

CMC TYPE	CMC 97151
Product description CMC 97151 is a foil made of high purity deoxidized copper with a low level of residual phosphorus. It has a very high electrical and thermal conductivity, good welding and soldering properties as well as a resistance to hydrogen.	
foil thickness	0.150 mm
designation according to DIN / ISO	Cu-HCP (CW021A), also Cu-PHC
density at 20°C	8.93 ... 8.94 g/cm ³
Material composition	
copper content	≥ 99.9%
phosphorus content	≤ 0.006%
Mechanical properties	
temper according to DIN EN 13599	R220 / H040 (soft)
tensile strength	220 ... 260 MPa or N/mm ²
elongation at break	> 15%
Young's modulus (elastic modulus)	110 ... 132 GPa or kN/mm ²
Electrical properties	
electrical conductivity	58 m/(Ω·mm ²) or MS/m
Thermal properties	
specific heat (thermal capacity) at 20°C	0.385 ... 0.386 J/(g·K)
thermal conductivity at 20°C	385 ... 394 W/(m·K)
coefficient of thermal expansion (linear)	16.9 ... 17.7 · 10 ⁻⁶ K ⁻¹
Other properties	RoHS compliant ✓ REACH compliant ✓

All information transferred from the original data sheets of our suppliers.

06/19

Storage conditions: cool and dry (15 - 25°C, < 65% rel. humidity)

Quality guarantee: 12 months

The technical data are average values and subject to change without notice. They are not intended to replace user's testing.

Note on REACH: Some of our products do contain substances from the so-called candidate list. Please visit <https://en.cmc.de/page/reach> and check whether or not a purchased product is listed in our REACH statement and therefore does contain one or more SVHCs.