

Alloy Designation	
EN	Cu-OFE / CW009A
DIN	OFE-Cu DIN EN13604
UNS	C10100 ASTM B152
JIS	C1011

Chemical Composition		
Cu	min. 99.99	%
O	max. 0.0005	%

Characteristics
Cu-OFE is a premium oxygen-free, high-purity copper (min. 99.99% Cu) delivering peak electrical conductivity (~101% IACS). The absence of oxides and deoxidizers prevents hydrogen embrittlement and allows extra-deep drawing and severe hot/cold forming; it also permits welding and brazing without special precautions.

Main Applications
Flexible circuits vacuum technology,
Radar components submarine cables and coaxial cables
Printed circuit board heat conducting plates
Vacuum gaskets and anodes for vacuum tubes

Physical Properties (Reference values at room temperature)		
Density	g/cm ³	8.94
Electrical conductivity	IACS%(20°C)*	101
Modulus of elasticity	KN/mm ²	115
Coefficient of thermal expansion	10 ⁻⁶ /K	17.7
Thermal conductivity	W/(m*K)	391

*value for the lowest temper class

Mechanical Properties					
TEMPER		Tensile Strength Mpa	Yield Strength Mpa	Elongation %	Hardness Hv
R220	H00	220 - 275	max. 140	min. 33	40 -70
R240	H01	235 - 300	min. 180	min. 8	65 - 95
R290	H04	290 - 360	min. 250	min. 4	90 - 110
R360	H10	min. 360	min. 320	min. 2	min. 110

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