TG GRISET

Tel: +33 (0) 3.44.66.34.00
Web: www.griset.com

CU-OF (1)

Réf. ASTM n°UNS : C10200

Réf. Normes Européennes : CW008A

Indicative Chemical composition	
Cu :	> 99,95 %

TYPICAL APPLICATIONS	
Electrical :	Special application such as glass/metal sealing in vacuum tubes, electrical equipments used in reducing atmosphere at hight temperature,…
Mechanical :	Applications requiring a welding or heating operation in a reducing atmosphere

MECHANICAL CHARACTERISTICS (European Standard : EN 1652 et EN 13599)

Temper H :		H 040	H 065	H 090	H 110
Hardness	HV	40-65	65-95	90-110	≥ 110

Temper R :		R 220	R 240	R 290	R 360
Tensile Strength	TS (MPa)	220-260	240-300	290-360	≥ 360
Yield Strength (2)	YS 0,2 (MPa)	≤ 140	≥ 180	≥ 250	≥ 320
Elongation (3)	E50 (%)	≥ 33	≥ 8	≥ 4	≥ 2

BENDING RADIUS FOLLOWING THE THICKNESS RELATED TO TEMPER ABOVE

Radius of Bending (4)	90°	Good Way	0 × t	0 × t	0 × t	(5)
	90°	Bad Way	0 × t	0 × t	0,5 × t	(5)

MECHANICAL CHARACTERISTICS FOLLOWING OLD STANDARD

Temper of old NF Standard			0	H 11	H 12	H 13	H 14	H 14,2
Hardness	HV		46-65	60-85	75-105	90-110	105-125	≥ 110
Tensile Strength	TS (MPa)		200-260	230-280	260-320	290-350	310-400	≥ 325
Yield Strength	YS 0,2 (MPa)		≤ 120	≥ 125	≥ 250	≥ 275	≥ 300	≥ 300
Elongation	E50 (%)		25	20	10	4	1	_
Bend Radius (4)	90°	Good Way	0 × t	0 × t	0 × t	0 × t	0,5 × t	(5)
	90°	Bad Way	0 × t	0 × t	0 × t	0,5 × t	1 × t	(5)

PHYSICAL CHARACTERISTICS (at 20°C) (6)

Density (Kg/dm3)	Electrical Conductivity (% IA CS)	Electrical Resistivity (μΩ,cm)	Thermal Conductivity (W/m,K)	Modulus of Elasticity (kN/nm²)	Thermal Expansion (10-6/K)	Melting Temperature (°C)	Modulus of Shearing (kN/mm²)
8,9	> 100	< 1,72	394	120	16,8	1083	45

(1) Old french designation: Cu-c1
(2) Indicative values
(3) For thickness < 2,5 mm
(4) Bending radius is expressed as a function of thickness (t) of the strip
(5) Bending possible to be defined with Griset
(6) values for annealed temper