TG GRISET

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Cu Zn 30

Réf. ASTM n°UNS : C26000

Réf. Normes Européennes : CW505L

Indicative Chemical Composition	
Cu :	70 %
Zn :	solde

TYPICAL APPLICATIONS	
Electrical :	Connectors, contacts, bulb base,…
Méchanical :	Deep-drawn components (cartridge cases, musical instruments…), automobile radiators, lamp reflectors, …
Chemical :	Fire-extinguisher bodies

MECHANICAL CHARACTERISTICS (European Standard : EN 1652)

Temper H :		H 055	H 095	H 120	H 150
Hardness	HV	55-90	95-125	120-155	≥ 150

Temper R :		R 270	R 350	R 410	R 480
Tensile Strenght	Rm (M pa)	270-350	350-430	410-490	≥ 480
Yields Strenght *(1)*	Rp 0,2 (M pa)	≤ 160	≥ 170	≥ 260	≥ 430
Elongation *(2)*	A50 (%)	≥ 40	≥ 21	≥ 9	_

BENDING RADIUS FOLLOWING THE THICKNESS RELATED TO TEMPER ABOVE

Radius of Bending *(3)*	90° Good Way	0 × t	0 × t	0 × t	*(4)*
	90° Bad Way	0 × t	0 × t	0 × t	*(4)*

MECHANICAL CHARACTERISTICS FOLLOWING OLD STANDARD

Temper of old NF Standard		0	H 11	H 12	H 13	H 14	H 15
Hardness	HV	60-80	85-120	115-145	136-163	148-168	168-188
Tensile Strenght	Rm (M pa)	300-380	330-400	390-460	440-510	490-560	560-630
Yields Strenght	Rp 0,2 (M pa)	≤ 190	≥ 200	≥ 320	≥ 370	≥ 410	≥ 500
Elongation	A50 (%)	45	30	15	8	4	2
Radius of Bending *(3)*	90° Good Way	0 × t	0 × t	0 × t	0 × t	0,5 × t	1 × t
	90° Bad Way	0 × t	0 × t	0 × t	0,5 × t	1 × t	2 × t

PHYSICAL CHARACTERISTICS (at 20°C) *(5)*

Density (Kg/dm3)	Electrical Conductivity (% IA CS)	Electrical Resistivity (μΩ,cm)	Thermal Conductivity (W/m,K)	Modulus of Elasticity (kN/nm^2)	Thermal Expansion (10-6/K)	Melting Temperature (°C)	Modulus of Shearing (kN/mm^2)
8,55	28	6,2	122	117	19	910-965	41,5

(1) Indicative values
(2) For thickness < 2,5 mm
(3) Bending radius is expressed as a function of thickness (t) of the strip
(4) Bending possible to be defined with Griset
(5) Values for annealed temper

- NON CONTRACTUAL DOCUMENT -