

Cu Zn 33

Réf. ASTM n°UNS : C26800

Réf. Normes Européennes : CW506L

Indicative Chemical Composition

Cu :	67 %
Zn :	solde

TYPICAL APPLICATIONS

Electrical :	Connectors, contacts, bulb base, ...
Mécanical :	Deep-drawn components (watch cases, instruments cases ...), automobile radiators, lamp reflectors, springs eyelets...

MECHANICAL CHARACTERISTICS (European Standard : EN 1652) _____

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

Temper R :		R 280	R 350	R 420	R 500
Tensile Strength	Rm (M pa)	280-380	350-430	420-500	≥ 500
Yields Strength (1)	Rp 0,2 (M pa)	≤ 170	≥ 170	≥ 300	≥ 450
Elongation (2)	A50 (%)	≥ 40	≥ 23	≥ 6	—

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	90-125	108-140	130-155	140-165	165-185
Tensile Strength	Rm (M pa)	300-380	330-400	380-450	430-500	470-540	540-610
Yields Strength	Rp 0,2 (M pa)	≤ 190	≥ 200	≥ 320	≥ 370	≥ 410	≥ 480
Elongation	A50 (%)	45	30	12	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)
8,5	27	6,4	125	114	19	900-940	40,5

(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

This document has been prepared for informational purposes and the values are indicative. Our responsibility can not be undertaken without a formal contract review. Our commercial and technical services remain at your service to study the proper matching of your needs in adequacy with physico-mechanical properties of our material.