



CU NI7.5 SN5

DECLAFOR 1015

CHEMICAL COMPOSITION :

Ni	8%
Sn	5%
Mn	0.05-0.30%
Pb	0.03% max
Zn	0.5% max
Fe	0.5% max
P	0.02% max
Cu	balance

ALLOY DENOMINATIONS :

MATERIAL N° EN :	-
WN/MATERIAL N° DIN :	-
ROBERT LAMINAGE :	565
EN :	-
DIN :	-
AFNOR :	-
UNS* :	C 72700

*Unified Numbering System (USA)

PHYSICAL PROPERTIES :

Density 20° C	8.80	Kg/dm ³
Melting point	960	°C
Modulus of elasticity, longitudinal	115	GPa
Thermal Conductivity	53.6	W/M . K
Electrical Conductivity	hardened 5.22	heat treated ≥ 7 M/Ω mm ²
Electrical resistivity	hardened ≤ 0.1916	heat treated ≤ 0.1428 Ω mm ² /M
Coefficient of linear expansion from 20 up to 300°C	17.25 x 10 ⁻⁶	K ⁻¹
IACS (International Annealed Copper Standard)	hardened 13	heat treated 12 %

WORKABILITY :

Hotworking	Unsuitable
Coldworking	Good
Machining	Very good
Diamond cutting	Very good
Polishing	Very good
Soldering, brazing	Very good
Plating	Very good
Mill hardened as delivered	350 °C/ 3h
Age hardened by customer	350 °C/ 3h
Shape stability after hardening	Very good

MAIN APPLICATIONS :

Electrical contacts, switches, spring, sliding contacts
 Current leads
 Heat exchange, seaming,
 Clock and watchmaking components, cogs, date disc, dial, index, hands, barquettes, etc.
 Membranes, pens clips, jewelry

CONDITIONING :

- a) In coils
- b) Cut to length, from 0.5 up to 3 m

AVAILABLE SIZES :

Widths	from 2 up to 350mm
Thickness	from 0.01 up to 3.4mm

QUALITY OF EDGES :

Slit edges

TOLERANCES :

Depending on product



MECHANICAL PROPERTIES :

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QUENCHED COLDROLLED STRIP

TEMPER	Vickers HARDNESS		Rm (MPa)		Rp 0.2 (MPa)	ELONGATION	
	min	max	min	max		0.10 up to 2.5 mm	above 2.5 mm
TB*	≤ 140		410	460	≤ 370	≥ 30	
TD1	140	160	460	500	370 - 480	juil.30	
TD2	160	200	500	600	480 - 540	04.juil	
TD3	200	220	600	680	540 - 610	≤ 4	
TD4	220	240	680	740	610 - 660	≤ 4	
TDX	≤ 320		≥ 780		≥ 650	≤ 4	

* hardened

QUENCHED COLDROLLED HEAT TREATMENT STRIP

TEMPER	Vickers HARDNESS		Rm (MPa)		Rp 0.2 (MPa)	ELONGATION	
	min	max	min	max		0.10 up to 2.5 mm	above 2.5 mm
TF*	≤ 250		700	800	540 - 650	≥ 15	
TH1	240	310	800	850	650 - 760	≥ 10	
TH2	280	320	850	885	760 - 830	≥ 5	
TH3	300	340	885	925	830 - 890	≥ 3	
TH4	310	360	925	990	890 - 940	≥ 2	
THX	≤ 325		≥ 990		≥ 940	≥ 1	

*heat treated