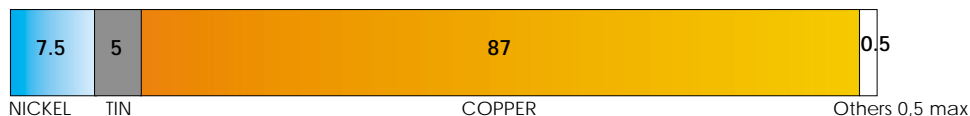


NEW

DECLAFOR 1015

FREE CUTTING AGE HARDENING ALLOY
WITH HIGH MECHANICAL PROPERTIES

COMPOSITION (Nominal %)



MAIN CHARACTERISTICS

- Age hardening alloy
- Berylliumfree alloy
- Good machinability
- High mechanical properties

TYPICAL APPLICATIONS

- Coaxial connectors
- Spectacles parts
- Sliding contacts parts
- All kind of turned parts



PHYSICAL PROPERTIES

Age hardening : 365°C + 0/-5°C
Quenching speed $\geq 8^\circ\text{C}$ loss per minute

Duration : 3 h.

Color	pinky, roseate	Electrical resistivity/20°C	13 $\mu\Omega$.cm
Density (20°C)	8,8	Specific heat (20°C)	-
Melting point	960°C	Thermal conductivity (20°C)	55 Wm.k
Coeff. of linear expansion (0 à 200°C)	17,2 x 10 ⁻⁶ /°C	Modulus of Torsion	115 Gpa
Electrical conductivity	13% IACS	Magnetical properties	: non-magnetic at every °C

MECHANICAL PROPERTIES

Wires \varnothing 1 to 5 mm

Temper	HV	Rm (Mpa)	Rp 0,2 (Mpa)	Alo 100mm (%)
Quenched				
TB	≤ 140	410-460	≤ 370	≥ 30
Quenched/Cold Rolled				
TD1	140-160	460-500	370-480	7-30
TD2	160-200	500-600	480-540	4-7
TD3	200-220	600-680	540-610	≤ 4
TD4	220-240	680-740	610-660	≤ 4
TDX	≥ 240	≥ 740	≥ 660	≤ 4

Quenched/Precipitation Heat Treated

TF	≤ 250	700-800	540-650	> 15
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Quenched/Cold Rolled/Precipitation Heat Treated

TH1	240-280	800-850	650-760	> 10
TH2	280-300	850-885	760-830	≥ 5
TH3	300-310	885-925	830-890	≥ 5
TH4	310-325	925-990	890-940	≥ 5
THX	> 325	> 990	> 940	≥ 1

Rods \varnothing 1 to 5 mm

Temper	HV	Rm (Mpa)	Rp 0,2 (Mpa)	Alo 100mm (%)
Quenched/Cold Rolled				
TD1	140-160	460-500	370-480	≥ 7
TDX	230-270	730-860	630-780	≤ 3

Quenched/Cold Rolled/Precipitation Heat Treated

TH1	230-280	780-840	550-750	≥ 10
THX	300-330	950-1100	910-1000	≤ 11

These properties are subject to amendments.



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