

Main application

Connectors, Springs

Characteristics

- Good combination of better bend formability and higher yield strength than standard [YCuT-M](#).
- Same chemical composition as [YCuT-M](#) with eco-friendliness.
- Same properties of resistance against fatigue, heat, and corrosion as standard [YCuT-M](#).
- No heat treatment required for hardening.

Chemical Composition

Ti	Cu + Ti
2.9-3.5	≥ 99.5

(wt.%)

Mechanical Properties

Temper	Tensile Strength N/mm ²	Elongation** %	Hardness HV	Kb Value** N/mm ²	Yield Strength (0.2% offset)* N/mm ²	Electrical Conductivity* %IACS	Modulus of Elasticity* kN/mm ²
H	885-1080	3-20	290-340	≥ 785	910	12	125
EH	980-1180	1-5	310-360	≥ 885	1020	12	122
SH	1030-1290	-	320-380	≥ 930	1160	9	120

1) *Reference value only. **Reference Value only in less than 0.15mm thickness

2) In each temper, covered thickness range for production is limited.

Minimum Bending Radius

Temper	90°W-MBR/t*		180°W-MBR/t**	
	GW	BW	GW	BW
H	0.5	3	1.5	3
EH	1	5	2	6
SH	3	-	3	-

* By JIS H3130.

** By JIS Z2248 wipe bending method.

Physical Properties

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Density at 20 °C	g/cm ³	8.68
Modulus of Elasticity	kN/mm ²	125(H)
Modulus of Rigidity	kN/mm ²	48(H)
Poisson's Ratio	-	0.33
Electrical Resistivity	$\mu\Omega \cdot m$	0.14(H)
Thermal Conductivity at 20 °C	W/(m · K)	50(H)
Coefficient of Thermal Expansion at 20 °C -200 °C	$\times 10^{-6}^{\circ}C$	17.6
Melting Point Solidus	°C	980
Melting Point Liquidus	°C	1075
Magnetic Properties	Non Magnetic	
Specific Heat	J/(kg · K)	400

*Standard value only.