

Extremely High Strength Copper Titanium Foil

C1995-GSH(HP)

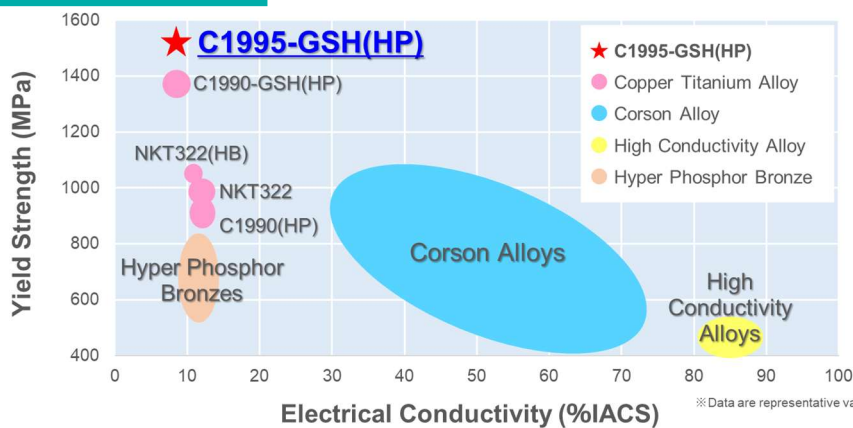
UNS C19950

※Data in this sheet are representative values (not specification).

Features

- C1995-GSH(HP) has the world's highest tensile strength (1540 MPa) as a copper alloy.
- Extremely high strength Copper Titanium Foil delivers excellent fatigue property and drop impact resistance. This strength improves the reliability of a spring in camera module and FPC connector.

Our Copper Alloy Lineup



Material Properties

1. Chemical Composition

Element	Cu	Ti
Nominal Value (wt%)	Bal.	4.0

2. Physical Properties

Electrical Conductivity (%IACS) (@20°C)	8
Specific Resistivity (nΩ·m) (@20°C)	216
Thermal Conductivity (W/(m·K))	39
Thermal Expansion Coefficient (×10 ⁻⁶ /K) (@20~200°C)	18.6
Modulus of Elasticity (GPa)	127
Specific Gravity	8.62

3. Mechanical Properties

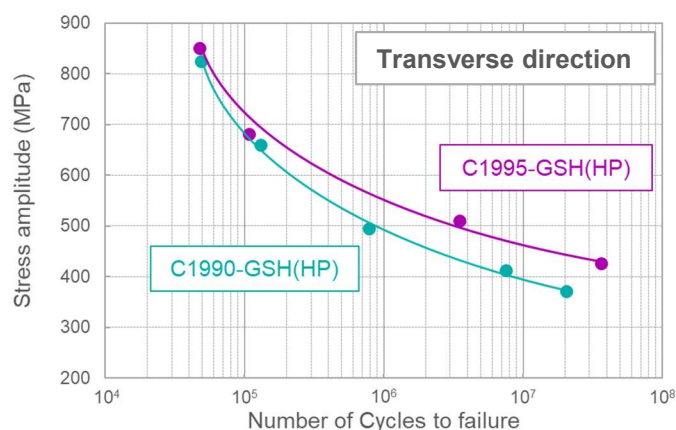
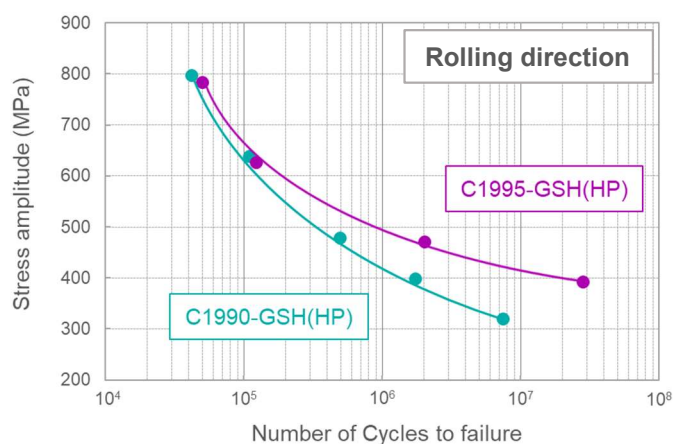
Temper	Tensile Strength (MPa)	Yield Strength (MPa)	Hardness (Hv)
GSH	1540 (1400-1700)	1530※ (-)	460 (400-500)

※For reference only

Material Properties

4. Fatigue Property

- C1995-GSH(HP) possesses excellent fatigue property among copper alloys.

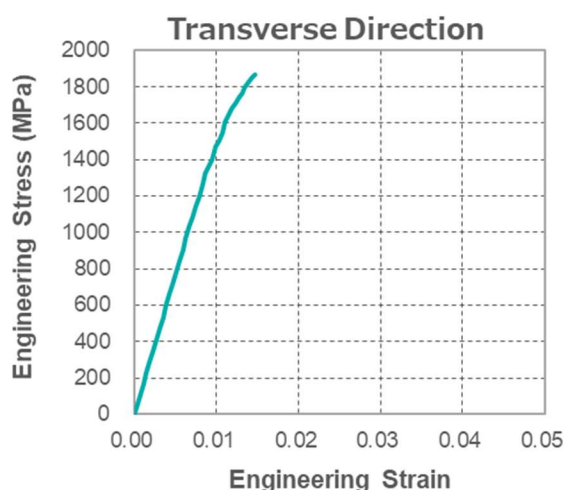
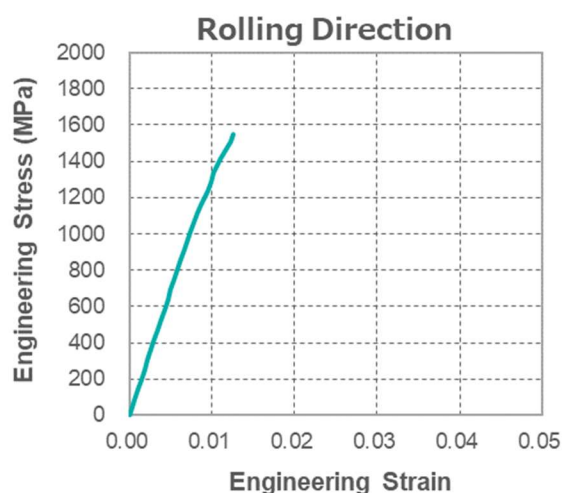


※Test method : JIS-Z-2273

5. Stress-Strain Curve

- Engineering Stress-Strain Curves of C1995-GSH(HP) can be downloaded from our official website.

Download : https://www.jx-nmm.com/english/products/copper_foil_and_alloy/02cuti/excel/C1995HP_S-S_Curve.xlsx



Production Thickness Range

Temper	Thickness Range (mm)
GSH	0.0275 ~ 0.20

- Please contact us for the latest stock status and inquiry of other thicknesses.

Contact Address

Web Site : <https://www.jx-nmm.com/english/>

C1995-GSH(HP) URL : https://www.jx-nmm.com/english/products/copper_foil_and_alloy/02cuti/c1995-gshhp.html

JX Advanced Metals Corporation



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