

## Products Information

### Features

- High electrical conductivity due to simple chemical composition
- High strength and superior stress relaxation resistance
- Applicable to small electronic parts because of lower heat generation with high electrical conductivity

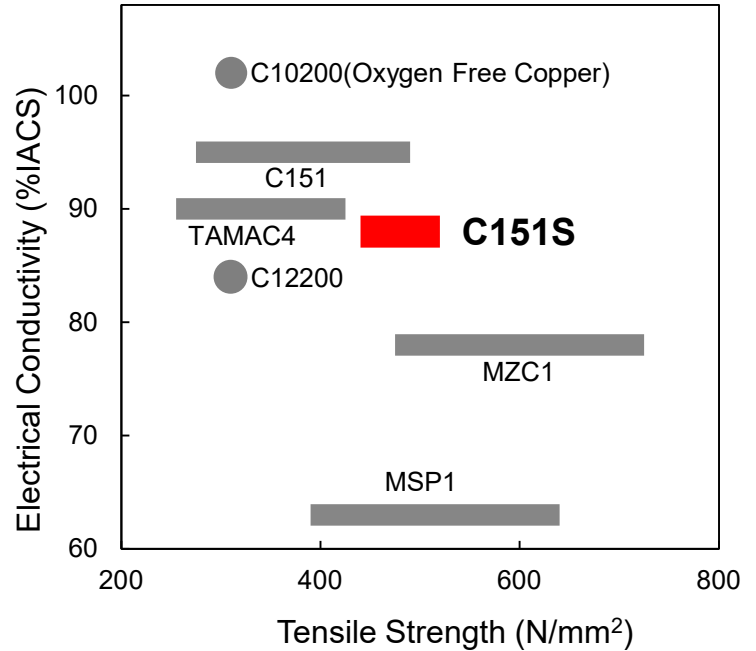
### Chemical composition

(mass%)

Zr	Cu
0.1	Rem.*

\* Including inevitable impurities and trace additive elements

### Positioning of Alloy



### Physical properties

Property	Representative Value
Specific Gravity (293 K)	8.9
Coefficient of Thermal Expansion (/K : 293~573 K)	$17.7 \times 10^{-6}$
Thermal Conductivity (W/(m·K) : 293 K)	347
Electrical Conductivity (%IACS : 293 K)	88
Modulus of Elasticity (kN/mm² : 293 K)	121
Poisson's ratio (293 K)	0.33

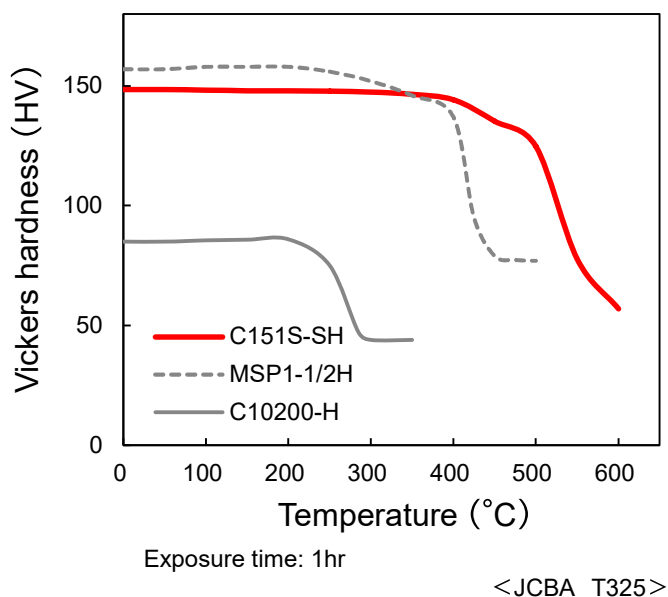
### Mechanical properties

	Temper	Typical Value
	SH	SH t:0.64mm
Tensile Strength (N/mm²)	440~520	487
0.2% Yield Strength (N/mm²)	—	454
Elongation (%)	5 Min.	11
Vickers Hardness* (HV)	(130 Min.)	147

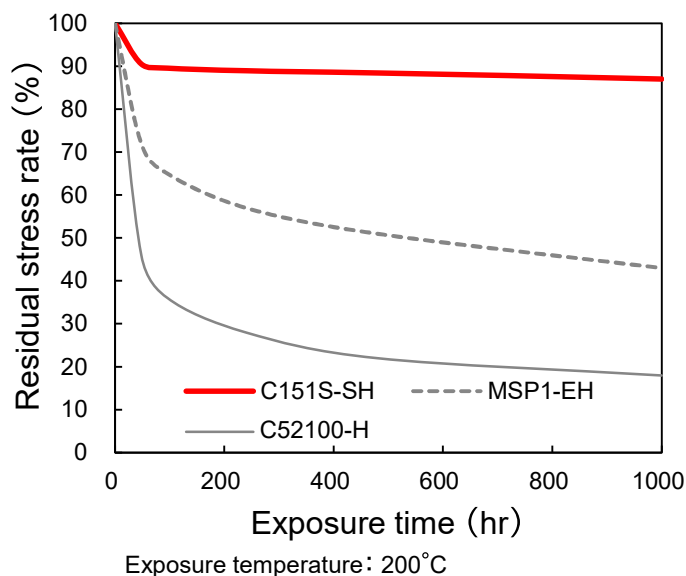
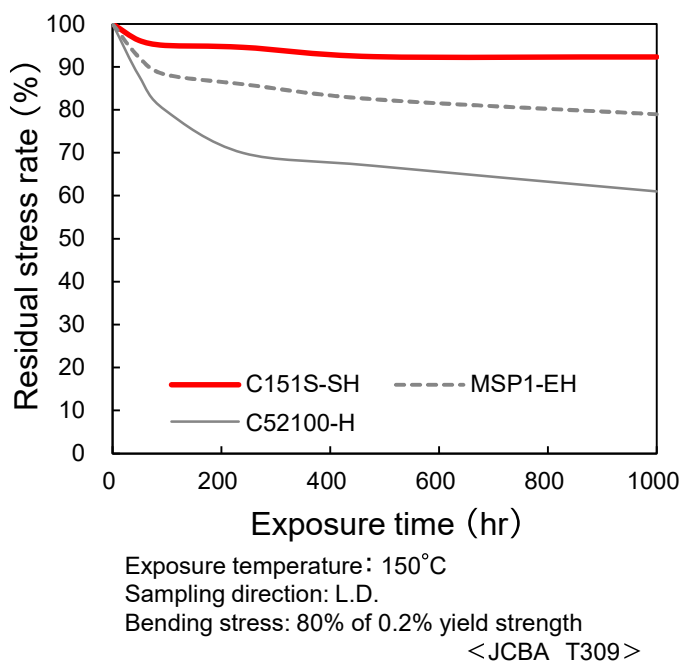
\* Reference values

### Products Information

#### ➤ Heat resistance



#### ➤ Stress relaxation resistance



#### ➤ Bendability

90° W-Bend, Specimen width=10mm, Load=9.8kN <JCBA T307>

Temper	Sampling direction (to the rolling direction)	Bending radius(mm) R							R/t
		0.25	0.3	0.35	0.4	0.45	0.5	0.6	
SH t: 0.64mm	0°: Good Way	▲	▲	△	△	△	△	○	0.4
	90°: Bad Way	▲	▲	△	△	△	△	△	

Criteria of evaluation: ◎Good(Acceptable), ○ Minor rough surface(Acceptable), △Rough surface(Acceptable),  
▲Minor crack(Unacceptable), ×Major crack(Unacceptable)