

Main application

IC Leadframes, Connectors, Springs, Thermostat Contacts, Electrical Components

Characteristics

- Good combination of strength and electrical conductivity with good bend formability.
- High corrosion resistance.

Nominal Chemical Composition

Fe	P	Zn	Cu
2.35	0.07	0.12	Bal.

(wt.%)

Physical Properties

*

Density at 20 °C	g/cm ³	8.91
Modulus of Elasticity	kN/mm ²	121
Electrical Resistivity	$\mu\Omega \cdot m$	2.54×10^{-2}
Thermal Conductivity at 20 °C	W/(m · K)	2.62×10^2
Coefficient of Thermal Expansion at 20-300 °C	$\times 10^{-6}/^{\circ}C$	17.4
Melting Point Liquidus	°C	1089
Melting Point Solidus	°C	1084

* Reference value only.

Mechanical Properties

Temper	Tensile Strength N/mm ²	Elongation* %	Hardness* HV	Electrical Conductivity %IACS
1/2H	365-434	6min	115-135	60min
H	413-482	3min	125-145	60min
EH	461-503	2min	135-150	60min
SH	482-523	-	140-155	60min
ESH	503-551	-	145-160	60min
SSH	≥ 551	-	≥ 155	50min
SH(RA)	482-524	4min	140-155	60min
EX-SPR(RA)	531-573	5min	150-165	60min

* Reference value only.