

Characteristics

- High dimension accuracy and flatness
Formability in high-speed stamping ,photo etching and stability after forming.
- Good surface cleanness and surface uniformity.Excellent surface processability and adhesiveness of oxide film for high-speed plating.
- High hardness and transform resistance.
- Much closeness to coefficient of linear expansion of Si, so it is adequate to use 42%Ni-Fe in molding process.
- Precise composition control ensures the stability of product characteristics.
- Referential standards:ASTM F-30(UNS K94100)



Chemical composition(wt%)

Ni

Fe

41

Bal.

Mechanical properties

Temper	T/S (N/mm ²)	Elongation (%)	Hardness (HV)
A	~590	≧ 30	120~160
1/2H	590~735	≧ 3	180~220

Physical properties

Density(20 °C)	g/cm ³	8.15
Modulus of elasticity	GPa	145
Electrical resistivity	μΩ•m	0.55
Thermal conductivity	W/(m•K)	14.7
Coefficient of linear expansion(900 °C x 1hr)	X10 ⁻⁶ /°C	4.2(30-300 °C)
Curie point	°C	375
Melting point	°C	1425