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## NOMINAL CHEMICAL COMPOSITION:

54% Fe                      29% Ni                      17% Co

## APPLICABLE SPECIFICATIONS:

ASTM F15                      DIN 1.3981

## MECHANICAL PROPERTIES:

(typically annealed material):

Tensile	Yield	Elongation	Modulus of Elasticity	Poisson's Ratio
525 Nmm <sup>-2</sup>	345 Nmm <sup>-2</sup>	30%	140 GPa	0.317

## PHYSICAL PROPERTIES:

Density	Curie Temperature	Melting Point
8.36 - 8.50 gcm <sup>-3</sup>	435°C	1450°C

## THERMAL PROPERTIES:

### Thermal Conductivity

21 Wm<sup>-1</sup>K<sup>-1</sup>

### Coefficient of Expansion

Temperature Range				x 10 <sup>-6</sup> K <sup>-1</sup>	Temperature Range				x 10 <sup>-6</sup> K <sup>-1</sup>
30°C	to	200°C		5.5	30°C	to	600°C		7.9
30°C	to	300°C		5.1	30°C	to	700°C		9.3
30°C	to	400°C		4.9	30°C	to	800°C		10.4
30°C	to	450°C		5.3	30°C	to	900°C		11.5
30°C	to	500°C		6.2					

## ELECTRICAL PROPERTIES:

### Electrical Resistivity

48.9 μOhm cm

## GLASS MATCHES:

**Kimble:** EN-1 (Owens-Corning), K650, K704  
**Corning:** 7052 or 7050, 7055, 7056, 7062 & others

