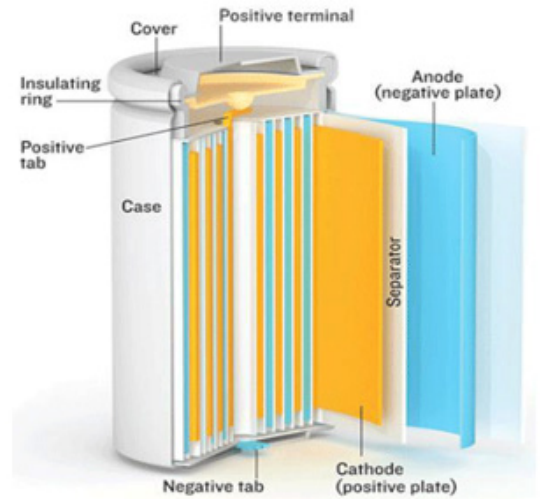




### Material Attributes

- Good brazeability and weldability compared to copper
- Excellent electrical and thermal conductivity
- Excellent contact corrosion resistance
- Lower cost compared to pure Nickel
- Excellent joining characteristics



### Description

**EMS Designation** PC730 - Nickel Copper Clad  
**Composition** N02201/C10200 or N02201/C10200/N02201  
**Ratio** Various

### Availability

**Surface** Medium luster matte finish  
**Temper** Annealed Standard (specific tempers also available)  
**Hardness** H<sub>v</sub> 50 for Copper, H<sub>v</sub> 100 for Nickel (nominal)  
**Thickness** 0.002 - 0.024" (0.05 - 0.60 mm)  
**Width** 0.062 - 12.00" (1.6 - 305mm)

Physical Properties (typical properties)	Ni/Cu 25/75	Ni/Cu/Ni 10/80/10	Ni/Cu/Ni 20/60/20
Density: Lbs/in <sup>3</sup> (g/cm <sup>3</sup> )	0.323 (8.94)	0.323 (8.94)	0.322 (8.91)
Yield Stress: Ksi (MPa)	29 (200)	39 (270)	50 (345)
Tensile Strength: Ksi (MPa)	39 (270)	46 (320)	57 (390)
Elongation %	12	12	12
Elastic Modulus: Msi (GPa)	20.3 (140)	19.6 (135)	22.2 (153)
CTE: μin/in/°F (μm/m/°C)	8.7 (15.7)	8.8 (15.8)	8.3 (14.9)
Thermal Conductivity <sup>(2)</sup> : BTU-ft/h-ft <sup>2</sup> -°F (W/mK)	180 (310)	190 (326)	152 (261)

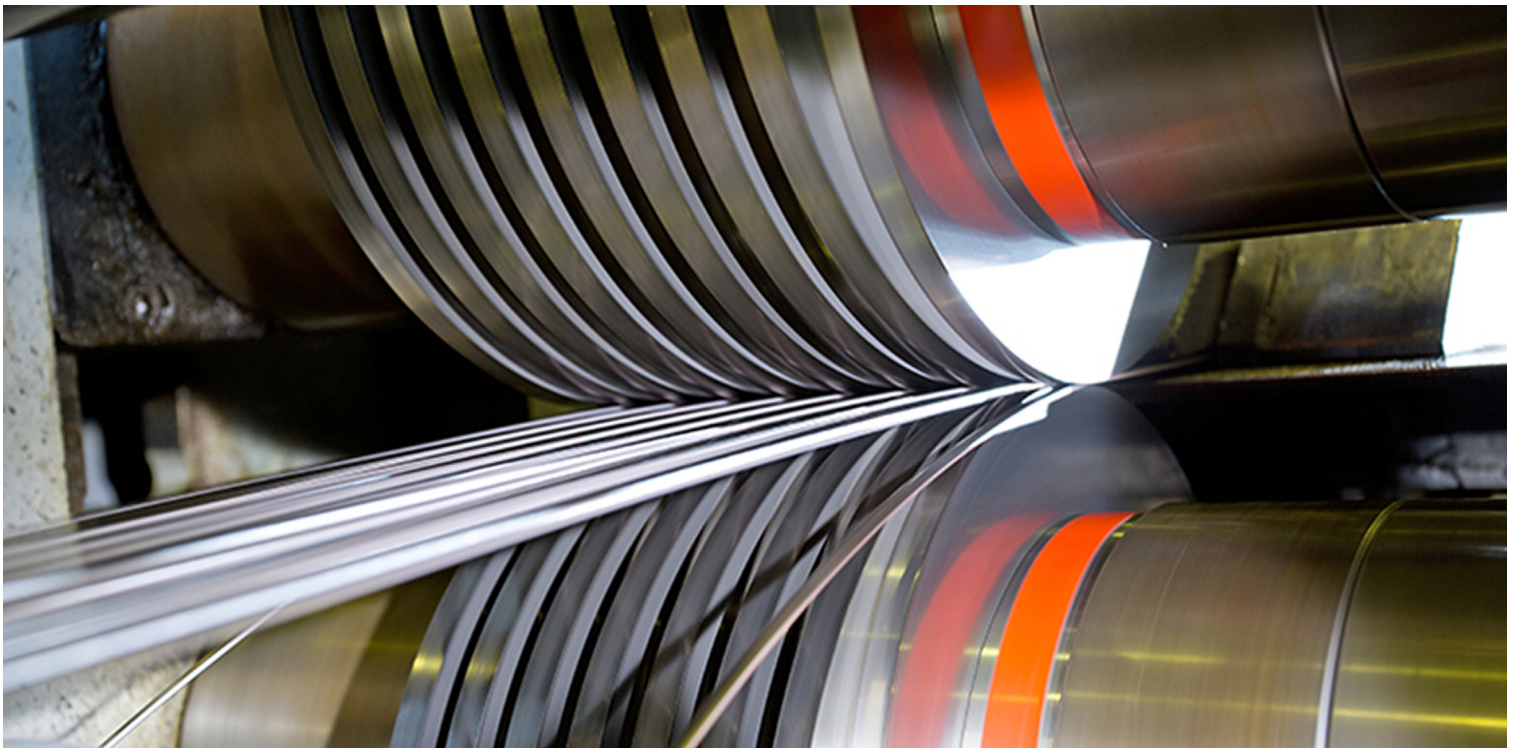
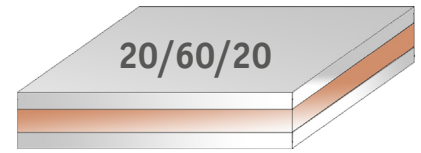
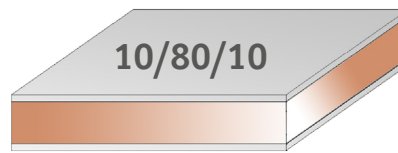
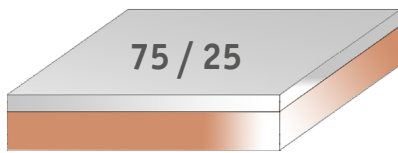
<sup>(1)</sup> Properties can vary depending on finish thickness

<sup>(2)</sup> Parallel to strip direction



<b>Electrical Properties @ 75°F</b> (typical properties)	Ni/Cu 25/75 Ratio		Ni/Cu/Ni 10/80/10 Ratio		Ni/Cu/Ni 20/60/20 Ratio	
Conductivity - % IACS <sup>(1)</sup>	79.0%		84.0%		70.0%	
Resistivity - Ω/CMF <sup>(1)</sup> (Ω-m)	13.1	(0.022)	12.4	(0.021)	14.8	(0.025)

## Typical Ratios



### North America

**Craig Durflinger**

Business Development Manager

Phone: +1 508 838 5207

Email: [cdurflinger@emsclad.com](mailto:cdurflinger@emsclad.com)

### Europe

**James Craggs**

Business Development Manager

Phone: +44 77 99 358 150

Email: [jcraggs@emsclad.com](mailto:jcraggs@emsclad.com)

### Asia

**C.W. Kong**

Business Development Manager

Phone: +86 514 889 16888

Email: [c.w.kong@emsclad.com.cn](mailto:c.w.kong@emsclad.com.cn)

