



"If you can imagine it, Nadco will make it stick."

1650
(Copper Foil Tape)

DESCRIPTION: Special electrolytic grade copper foil. The copper foil is a uniformly high tensile alloy with carefully controlled dead soft temper. This allows for tight conformation to cut edges and cast surfaces. Acrylic adhesive system is resistant to high temperatures such as those encountered in soldering.

APPLICATIONS: As conductor and for shielding purposes in electrical applications, art and craft work, machine construction.

TECHNICAL DATA	IMPERIAL	METRIC
Density	0.321 lb/in ³	8.9 g/cm ³
Melting Point	1981°F	1083°C
Coefficient of Thermal Expansion (Linear)	9.33 10 ⁶ per °F at 77-212°F 9.83 10 ⁶ per °F at 77-572°F	16.8 10 ⁶ /K at 25-100°C 17.7 10 ⁶ /K at 25-300°C
Specific heat (Thermal Capacity)	0.0921 BTU/lb °F at 68°F	0.38651/g K at 20°C
Thermal Conductivity	385.2 W/K m at 100°C	223 BTU ft./ft. ² h °F at 212 °F
Electrical Conductivity	100.0-101.5% IACS at 68°F	58-58,9 m/Ω mm ² /m at 20°C in soft condition
Electrical Resisitivy *	0,01693-0,017241 Ω mm ² at 20°C in condition soft	10.371-10.2 ohms (circ mil/ft) 0.678-0.669 micro-ohm in at 68°F
Temperature Coefficient of electrical resistance	0.00218 per°F (100% IACS) at -148 to 392°F	0,00393/K at -100 to + 200°C
Modulus of elasticity (tensile) annealed	17 10 ⁶ lb/in ²	117700 N/mm ²
cold rolled	17 10 ⁶ lb to 19 10 ⁶ lb/in ²	117700-132000 N/mm ²
Processing Properties		
Annealing temperature range	392-932°F	200-500°C
Stress Relieving Temp Range	176-302°F	80-150°C

* For special application, such as thermal-elements of heating conductors, electrical resistances can be met in close tolerances with slightly altered mechanical properties.