

BrushForm® 158 Strip - TM10 Temper



Materion Performance Alloys' BrushForm® 158 Strip is a high-performance, heat treated spinodal copper nickel tin alloy designed to provide optimal formability and strength characteristics. TM10 provides excellent flatness and stiffness coupled with high resistance to vibration, fatigue and impact loading. This makes it ideal for voice coil motor springs in optical image stabilization systems.

CHEMICAL COMPOSITION (weight percent)

Alloy	Nickel	Tin	Copper
BrushForm® 158 Strip	14.5 - 15.5	7.5 - 8.5	Balance

PHYSICAL PROPERTIES

Elastic Modulus (GPa)	Density	Typical Electrical Conductivity	Coefficient of Thermal Expansion	Relative Magnetic Permeability	Poisson's Ratio
120	9.00 g/cm ³	7% IACS 4 MS/m	16.4 ppm/°C	<1.001	0.3

MECHANICAL PROPERTIES

Temper	0.2% Offset Yield Strength (MPa)	Ultimate Tensile Strength (MPa)	Elongation*	Hardness (HV)
TM10	1135-1345	1205-1450	1.0% min.	370 min.

* Percent elongation valid only for strip greater than 0.10 mm thick.

STANDARD AVAILABILITY

Mill Hardened Tempered Strip: 0.025mm - 0.12mm gauge.

SPECIFICATIONS AND STANDARDS

UNS C72900, ASTM B740

North American Service Centers – Sales Inquiries

For strip ≤ 0.060 " (1.5 mm) thick. wire and rod ≤ 0.5 " (12.7 mm) diameter:

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OTHER CONTACT INFORMATION

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International Sales	US distributors	
World-wide Distribution	International distributors	