

THINNEST THERMOSTATIC BIMETALS

68 MICRONS FOR THE SAFETY OF YOUR SMALLEST PRODUCTS





Ultra-thin thermostatic bimetals are used in electrical motors to control and protect the motor winding against overheating. Especially in small applications space is limited, so bimetals should be small and thin. We can achieve a thickness as thin as 0.068 mm ($68 \mu \text{m}$) and a width as narrow as 3 mm!

High elongation Low elongation

2-layer bimetal

High elongation

Thin layers of stainless steel to increase corrosion resistance

Alloys with high thermal linear expansion

MnNi16Cu10 / MnCu18Ni10 FeNi20Mn6 / FeNi22Cr3 High elongation

Interlayer

Low elongation

3-layer bimetal with intermediate layer to reduce resistance

High elongation
Interlayer
Low elongation

Thin copper layer to improve solderability

Alloys with low thermal linear expansion

FeNi32Co6 / FeNi36 / FeNi42 many more

PORTFOLIO WICKEDER GROUP

- > Clad Materials > Bimetals > Nickel Strips > Metal Foils
- > Photochemical Etching > Sheet Metal Working > Waterjet Cutting
- > Electroforming > Parylene Coating > Materials Engineering etc.



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