

## KANTHAL 72-18-10 HIGH EXPANSION COMPONENT

### DATASHEET

Kanthal 72-18-10 is a Mn-based alloy for use in thermostat bimetal applications.

#### CHEMICAL COMPOSITION (NOMINAL)

##### CHEMICAL COMPOSITION (NOMINAL) %

Mn	Cu	Ni
72	18	10

#### MECHANICAL PROPERTIES

Hardness, Vickers: 100-130

#### PHYSICAL PROPERTIES

Density g/cm <sup>3</sup>	7.21
Electrical resistivity at 20°C, Ω mm <sup>2</sup> /m	1.75

#### COEFFICIENT OF THERMAL EXPANSION

Temperature °C	Thermal Expansion x 10 <sup>-6</sup> / K
30 - 100	27

#### Thermal Conductivity

W m <sup>-1</sup> K <sup>-1</sup> ,	8
-------------------------------------	---

#### Specific heat capacity

kJ kg <sup>-1</sup> K <sup>-1</sup>	0.54
-------------------------------------	------

Disclaimer: Recommendations are for guidance only, and the suitability of a material for a specific application can be confirmed only when we know the actual service conditions. Continuous development may necessitate changes in technical data without notice. This datasheet is only valid for materials under the trademark Kanthal®.