

The conventional thermocouple is used with an outer protecting tube or thermowell to protect it from aggressive and corrosive process condition. This improves longevity of the thermocouple. However, response time is poor. To overcome above problem, *General* has designed MI Thickwall Thermocouple having thicker wall with relatively larger conductor diameters. This construction enable the user to insert the thermocouple directly in the process without a protecting tube or thermowell, improving response time considerably.

**Normal applications:**

Furnaces, rotary kilns, recuperators, skin temperature measurement of heater tubes.

**Advantages:**

- ❑ Faster response
- ❑ Longer lengths can be offered
- ❑ Pliable and easily routed
- ❑ Available in SS316, SS310, Inconel® 600, Incoloy® 800, SS446 sheath materials

**Type of thermocouple offered under Thickwall:**

- J (Iron constantan)
- K (Chromel alumel)
- E (Chromel constantan)



SHEATH DIA	WALL THICKNESS*	CONDUCTOR DIA *	
		(Nominal) Single	(Nominal) Duplex
8 mm	1.65 mm	1.12 mm	0.65 mm
9.5 mm	2.00 mm	1.40 mm	1.20 mm
10 mm	2.10 mm	1.40 mm	0.85 mm
12.7 mm	3.00 mm	1.80 mm	1.10 mm
15 mm	3.60 mm	2.00 mm	1.65 mm
17 mm	4.00 mm	2.20 mm	1.85 mm
19 mm	4.50 mm	2.45 mm	2.00 mm

\* These are standard dimensions. Special dimensions available on request.