

Noble Metal Thermocouples



CLEVELAND ELECTRIC LABORATORIES

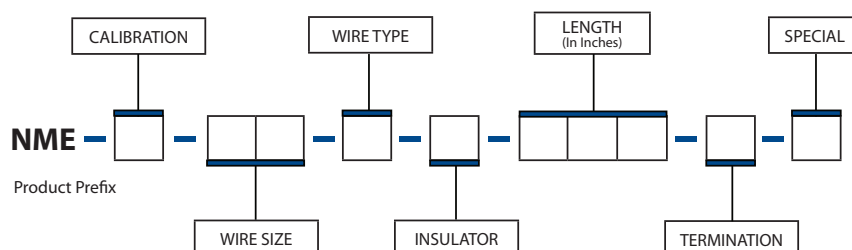
Thermocouples & Sensing Solutions since 1920



Noble Metal Thermocouples are available in a wide variety of configurations. Once a specific application is identified, the thermocouple can be built to order for peak performance. Available in single or multi-point assemblies, this series of products will perform well in applications of extreme temperatures, as high as 4200°F. For information on material selection parameters for Protection Tubes and other components, please refer to the appropriate pages.

Noble Metal Elements (NME)

- Temperatures up to 4200°F
- Platinum / Rhodium elements in Standard, Reference, and Certified materials
- Type **S** and **R** used for short periods up to 3100°F, continuously up to 2700°F
- Type **B** for temperature up to 3100°F
- Type **C** and Tungsten/Rhenium elements up to 4200°F
- Platinel II is used up to 2300°F



Use Specification Codes below to assemble a complete Ordering Number.

Specifications/Codes

CALIBRATION	WIRE SIZE	WIRE TYPE	INSULATOR	LENGTH	TERMINATION	SPECIAL
S - Plt-Plt 10% Rh	30 - .010	1 - Standard	1 - Bare	Specify from 000" to 999"	1 - Copper Tips	0 - None
R - Plt-Plt 13% Rh	28 - .013	2 - Reference Grade	2 - .125 OD Mullite		2 - Knife Clips/Glass Sleeveing	C - Lot Certification
B - Plt 6% Rh-Plt 30% Rh	27 - .014	3 - Fibro Grade	4 - .187 OD Mullite		3 - Fish Spine Beads Only	D - Dual Element
C - W 5% Re-W 26% Re	26 - .016		A - .187 OD Mullite w/Collar		4 - Fish Spine Beads/CU Tips	E - Individual Certification
F - Platinel	24 - .020		E - .200 OD Mullite		5 - Fiber Glass Sleeve Only	X - Special (Consult Factory)
G - Gold	23 - .023		G - .200 OD Mullite w/Collar		6 - Bare Ends Only	2 - Dual Element Lot Certified
L - Silver	22 - .025		6 - .250 OD Mullite		7 - Mini Plug w/Tube Adapter	
	21 - .028		C - .250 OD Mullite w/Collar		8 - Mini Plug w/Cable Clamps	
	20 - .032		3 - .125 OD Alumina		A - SHX Alumina Plug	
			B - .187 OD Alumina w/Collar		B - NHX Alumina Plug	
			F - .200 OD Alumina		H - Hi-Temp. Mini Plug	
			H - .200 OD Alumina w/Collar		P - Hi-Temp. Plug w/Tube Adapter	
			7 - .250 OD Alumina		G - Male Plug (400 deg) Tube Adaptor	
			D - .250 OD Alumina w/Collar		J - HiTemp Jack/Tube Adaptor	
	18 - .040		S - 1/16" OD Spaghetti			
	15 - .060		9 - 1/16" OD Alumina Ins.			
	14 - .064		8 - .150 OD x 1" Alumina			
	XX - Other		M - .156 Alumina w/Collar			
			T - Ceramic Braid-Twist			
			U - Special Insulator			

Type S

.020" dia. wire size

standard grade thermocouple wire type

in a 3/16" mullite insulator with collar

fish spine beads with copper tips, 18" length



NME - S - 24 - 1 - A - 018 - 4 - 0

Example Ordering Number