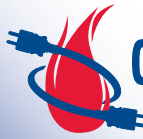
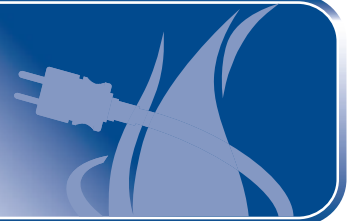


Noble Metal Thermocouples



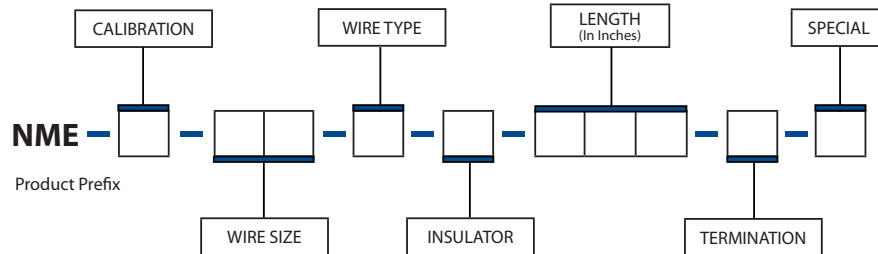
CLEVELAND ELECTRIC LABORATORIES
Thermocouples & Sensing Solutions since 1920



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