

## Thermocouple Components Thermocouple Elements

### Replacement Elements for High Temperature T/C

Elements consist of .020" (0,5 mm) Diameter Wire with Double Bore Round Insulators. Overall Length of Element is 8" ( 203 mm ) longer than immersion length of assembly. As an example, an assembly with 5" (127 mm) immersion uses an element 13" long.			
CALIBRATION		TU-5% Rhen. vs TU-26% Rhen.	
INSULATOR MATERIAL		ALUMINUM OXIDE	
PART NUMBER		30691987-Item	
ITEM NO.	OVERALL LENGTH	INSULATED LENGTH	PRICES
-013	13" (330 mm)	7" (178 mm)	<b>CONSULT FORT WASHINGTON</b>
-019	19" (483 mm)	13" (330 mm)	
-025	25" (635 mm)	19" (483 mm)	
-028	28" (711 mm)	22" (559 mm)	
-031	31" (787 mm)	25" (635 mm)	
-037	37" (940 mm)	31" (787 mm)	

### Replacement Elements for Iridium - Rhodium T/C

These elements consist of .020" Diameter With Double Bore Round Insulators. The Calibration is 40% Iridium - 60% Rhodium vs. Iridium. Length Shown is Immersion of Thermocouple Assembly.			
INSULATOR MATERIAL		ALUMINUM OXIDE	
PART NUMBER		30692077-Item	
ITEM NO.	OVERALL LENGTH	INSULATED LENGTH	PRICES
-001	1" (25,4 mm)	5" (127 mm)	<b>CONSULT FORT WASHINGTON</b>
-002	2" (50,8 mm)	11" (279 mm)	
-003	3" (76,2 mm)	17" (432 mm)	
-004	4" (102 mm)	20" (508 mm)	
-005	5" (127 mm)	23" (584 mm)	
-006	6" (152 mm)	29" (737 mm)	

### Replacement Element for High Temperature Noble Metal T/C

Consist of .020" (.5 mm) Diameter Platinum - 30% Rhodium vs. Platinum - 6% Rhodium Wire with Aluminum Oxide Insulators.		
SPECIFY: #30691975-Item		
ITEM NUMBER	LENGTH	PRICES
-001	12" (305 mm)	<b>CONSULT FORT WASHINGTON</b>
-002	18" (457 mm)	
-003	24" (610 mm)	
-004	30" (762 mm)	
-005	36" (914 mm)	

# Thermocouple Components

## Elements for T/C Assembly with Thin Wall Wells

Basic Model Number	Description
9J13AD #	Copper Constantan #20 Gage Fiberglass Insulated Regular Grade
9J33AD #	Iron Constantan #20 Gage Fiberglass Insulated Regular Grade
#	Follow with Length in inches as calculated from following table.

### Calculate Element Length as Follows:

For 1D35 or 3D35: Immersion Length of Well plus Extension Length plus additional 2" (51 mm) (plus lag if for special well)

For 1D73 or 3D73: Immersion Length of Well plus Extension Length plus additional 1" (25,4 mm)

Table II - Construction

Specify	Description
6	For Use with Open Type Head
7	For Use with General Purpose or Screw Cover Head

## Glass Tank Crown Block for Noble Metal T/C

9R1	Silica Block 60 square x 140 long. Two 1-3/160 diameter, holes for thermocouples; opposite sides are sloped to fit into crown of glass tanks.	9R1
30000230-000	14" High x 6" Square	

## Replacement Elements for Short Immersion Thermocouples

9J63	Replacement Element for Hartford-Element T/C Number 6J74 (QR)			9J63
9J72	Replacement Element for Hartford-Empire T/C Number 7J74 (HER)			9J72
S1	Spout Type	7" (178 mm) Radius	Without Thimble	Consult FW For Pricing
S2	Spout Type	10" (254 mm) Radius	Without Thimble	
C1	Channel Type	10" (254 mm) Radius	Without Thimble	
C2	Channel Type	7" (178 mm) Radius	Without Thimble	
C3	Channel Type	6" (152 mm) Radius	Without Thimble	
SP1	Spout Type	7" (178 mm) Radius	With Platinum Thimble	
SP2	Spout Type	10" (254 mm) Radius	With Platinum Thimble	
CP1	Channel Type	10" (254 mm) Radius	With Platinum Thimble	
CP2	Channel Type	7" (178 mm) Radius	With Platinum Thimble	
CP3	Channel Type	6" (152 mm) Radius	With Platinum Thimble	