

SALT BATH

Data / Order Sheet No. 3

THERMOCOUPLES & COMPONENTS



Quality heat treatment depends on accurate furnace temperature. The thermocouple is the most vulnerable part of the temperature measuring system, and therefore thermocouples must be properly designed, fabricated of the best materials, and, of course, accurate.

Recommended As Good Practice

Thermocouples used in molten salt should be checked on a regular periodic basis (daily, by shift, etc.) for accuracy and for loose connections, sheath corrosion or other damage. You should always have at least two complete thermocouple assemblies on hand for each furnace. That is simply insurance against furnace down time.

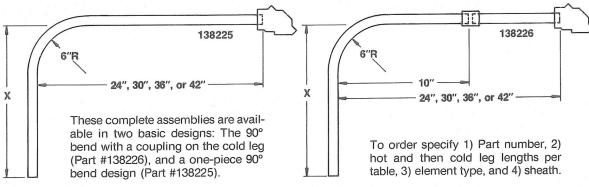
An Ajax Thermocouple Is Special

Ajax has developed over the years special thermocouples that best meet the rigorous condition of a salt bath furnace. Protecting sheaths are inspected for soundness of welds and thoroughly cleaned before assembly. Each couple is then tagged with its complete part number, calibration and serial number of the furnace for which it is intended.

Note:

Ajax can also supply thermocouples for other makes of salt bath furnaces if you will supply the critical dimensions of the couple, type of salt involved and operating temperature.

Standard AJAX Angle-Type Thermocouples

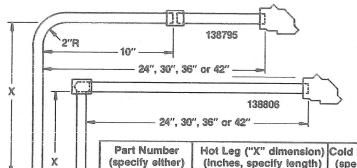


Part Number (specify either)	Hot Leg (inches,	("X" did	mension) / length)	Cold Leg (inches) (specify length)	Element (specify either)	Sheath (specify code)
	12	33	54	24	J is	Steel = #10
138225	15	36	57		Iron-Constantan	Chrome-
	18	39	60	30	calibration	Stainless = #30
(or)	21	42	63			High Ni -
	24	45) 66	36	Kis	Chrome = #94
(138226)	27	48	69		Chromel-Alumel	
	30	51	72	42	calibration	High Ni = #100

Example: 138226 - 45 - 36

This is a 138226 couple, 45" hot leg, 36" cold leg, Chromel-Alumel with high Nickel-Chrome sheath.

NOTE: Custom sizes are available on special order.



12, 18, 24, 30

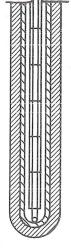
36, 42, 48, 54, 60 16, 22, 28, 34

40, 46, 52, 58, 64

Angle Type With Ceramic Inner Sheath

This new Ajax design provides optimum operating life by protecting the

fumes and oxidation. A high temperature ceramic sheath is mounted inside of an outer alloy metal sheath.								
Leg (inches) ecify length)	Element (specify either)	Shealth (specify code)						
24 30 36 36 42	J is Iron-Constantan calibration K is Chromel-Alumel calibration	Chrome - Stainless = #30 High Ni Chrome = #94 High Ni. = #100						



Example: 138795 -

This is a 138795 ceramic-lined couple with a 40" hot leg, 42" cold leg, with a high nickel outer sheath.

138806

138795

NOTE: A straight version of this couple having the ceramic inner shealth is also available. Specify part number 148045 and use the same ordering code. Hot leg lengths from 12" to 60" in 6" increments.

Standard Noble Metal Platinum Thermocouples

Thermocouples employing Platinum-Platinum/Rhodium elements are usually used only at salt bath temperatures exceeding 1800° F. Ajax can supply either straight or angle-type assemblies. Angle-type noble metal couples are available on special order. Similarly, custom sizes available on request. Ajax supplies one basic design (Part No. 148048) of Noble metal thermocouple, as illustrated, from a 12 in. length to a 66 in. length in 6 in. increments. Protecting Sheaths (Part No. 148049) may be ordered separately. To order, simply advise: a) Calibration (R or S), b) length desired.

Ceramic 148048 Inner Sheath 111111 148049

Elements

Ajax supplies elements for either base or noble metal thermocouples, either bare, or with ceramic insulators. To order. simply specify: a) Calibration, b) overall length in inches. and c) with or without insulators.

Target Tubes For Radiation Pyrometer

Ajax supplies spare target tubes for either the Honeywell Radiamatic™ or Leeds & Northrup Ray-O-Tube™ pyrometers. Both types use only one standard length for salt baths (18 inches). To order, simply specify: which type of instrument is being used.



(Clip, complete and mail to AJAX ELECTRIC CON	MPANY)			
☐ Proceed with repairs or replacement parts, use our P.O. #(or)				
☐ Please advise costs and delivery.				
(For quick replay call Ajax Spare Parts Dept. (215) 947-8500)				
Quantity				
Complete Assembly (Base Metal) No Complete Assembly (Noble Metal) No Complete Assembly (Ceramic Inner Sheath) No				
Elements: Bare Calibration With Insulators				
Target Tubes for				
Radiation Pyrometer				
(#19455 for L&N, #19456 for Honeywell)	ΔΙΔΧ			
COMPANY ————————————————————————————————————				
ADDRESS	ELECTRIC COMPANY			
CITYSTATEZIP	Tomlinson & Tracey Roads Huntingdon Valley, Pa. 19006			

PHONE NO. -

Name of Authorized Person .-

Telephone (215) 947-8500