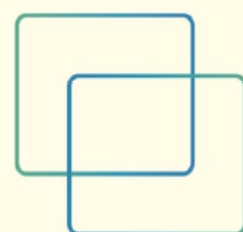


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[www.heatment.com](http://www.heatment.com)

# HEATMENT

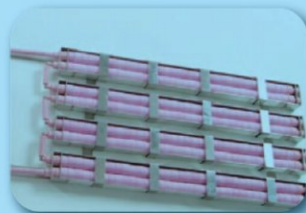
Shanghai Heatment Technology Co., Limited



# Company Profile

HeatMent™ has been export-oriented and targeting on overseas market demand since its establishment in 2004. HeatMent™ utilizes top grade and export-oriented material in manufacturing heat treatment equipment, heating element and accessories. Due to long service to oversea projects operated by a team of experts and engineers, HeatMent™ provides expert heat treating services and great customer satisfaction and has successfully outstood as a reliable company in supplying heat treating equipment and accessories, both home and abroad.

We offer a wide variety of products and services for heat treating industry, each specifically developed to meet the complex needs of our clients.



**Flexible Ceramic Pad (FCP) heater** is manufactured by multi-strand quality 80/20 Nichrome heating wire through passages within interlocking ceramic beads, complete with two electrically insulated camlock, which is protected from being heated by cold pure nickel wire that connects the heating wire. The alumina ceramic beads are made of sintered 95% Alumina Ceramics. It enjoys high temperature resistance, excellent insulating property, and efficient thermal conductivity and heat transfer, which provides FCP heaters with exceptional electrical insulating and thermal conductivity qualities. It can be frequently used up to fifty times at ambient of 1050° C.

## Industry We Serve

Offshore/Onshore Oil and Gas Industries, Power Generating Stations, Refineries, Fabrication and Welding Shops, Ship Building and Repair,, Pulp & Paper Mills... e. t. c.

Flexible Ceramic Pad heaters (FCP) are generally available to two standard volts: 80VAC, and 60VAC and using different connectors among different countries, one choice is Brass Camlock Connector, the other choice is Welding Cable Plug (System DINSE). The specification is referred to Table below.

## Flexible Ceramic Pad heater (FCPs) - 80V heaters

HMT Code	Type	Width (mm)	Length (mm)	Rating (kW)	Current (amp)	Voltage (volt)
HMT-803	CP3	75	991	3.6	45	80
HMT-804	CP4	102	737	3.6	45	80
HMT-806	CP6	152	501	3.6	45	80
HMT-808	CP8	203	368	3.6	45	80
HMT-8010	CP10	254	290	3.6	45	80
HMT-8012	CP12	305	248	3.6	45	80
HMT-8015	CP15	380	203	3.6	45	80
HMT-8018	CP18	457	165	3.6	45	80
HMT-8021	CP21	535	145	3.6	45	80
HMT-8024	CP24	610	125	3.6	45	80
HMT-8029	CP29	740	100	3.6	45	80
HMT-8033	CP33	840	85	3.6	45	80
HMT-8036	CP36	915	80	3.6	45	80

## Flexible Ceramic Pad heater (FCPs) - 60V heaters

HMT Code	Type	Width (mm)	Length (mm)	Rating (kW)	Current (amp)	Voltage (volt)
HMT-603	CP3	75	670	2.7	45	60
HMT-604	CP4	100	505	2.7	45	60
HMT-606	CP6	150	335	2.7	45	60
HMT-608	CP8	205	250	2.7	45	60
HMT-6010	CP10	255	210	2.7	45	60
HMT-6012	CP12	305	165	2.7	45	60
HMT-6015	CP15	380	145	2.7	45	60
HMT-6016	CP16	410	125	2.7	45	60
HMT-6018	CP18	460	125	2.7	45	60
HMT-6021	CP21	535	105	2.7	45	60
HMT-6024	CP24	610	85	2.7	45	60
HMT-6026	CP26	610	85	2.7	45	60



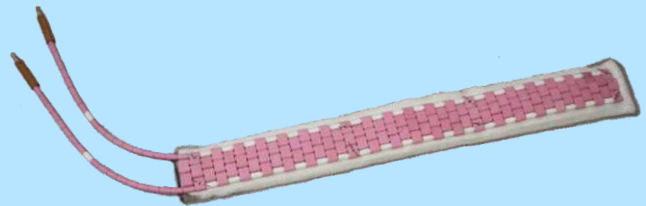
## 4 Bank Channel Heater

HMT Code	Description	Width (mm)	Length (mm)	Volts (V)	Power (kW)	Weight (kg)
HMT3025	Single Channel	70	400	30	1.65	2.5
HMT6039	Single Channel	70	720	60	3.3	3.9
HMT60155	4-Bank channel	360	720	60	13.2	15.5
HMT110155	4-Bank channel	360	720	110	13.2	15.5
HMT240155	4-Bank channel	360	720	240	13.2	15.5



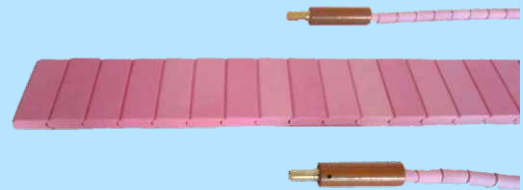
## Flexible Insulated Preheaters (FIPs)

HMT Code	Width (mm)	Length (mm)	Volts (V)	Power (KW)
HMT60101	101	775	60	2.7
HMT60127	127	604	60	2.7
HMT80101	101	1024	80	3.6
HMT80127	127	793	80	3.6



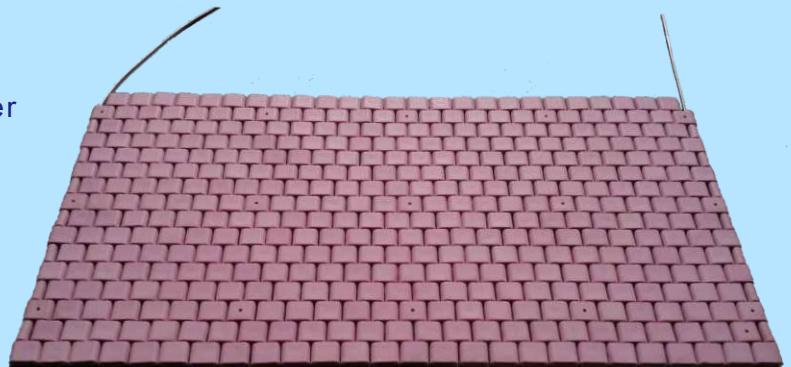
## Tank Track Heater

HMT Code	Width (mm)	Length (mm)	Volts (V)	Power (KW)
HMTTTH60	75	670	60	2.7
HMTTTH80	75	940	80	3.6



## 220V,240V&255V - Ceramic Pad Heater

HMT Code	Width (mm)	Length (mm)	Volts (V)	Power (KW)
HMT255115	710	336	255	11.5
HMT240108	660	336	240	10.8
HMT22099	610	336	220	9.9



Alumina Ceramic Beads



Brass Camlock Connector



Heating Wire

# Alumina Ceramic Beads

**HeatMent®**

*We treat the heat*

95% Alumina Ceramic Beads is manufactured by dry press method and sintered at temperature upto 1650° C. The production is under careful material selection of high grade alumina spray drying granulation from what is called as calcined alumina, thus the stability is maximally ensured. It enjoys high temperature resistance, excellent insulating property, and efficient thermal conductivity and heat transfer.

Thanks to its excellent characteristics, the ceramic beads is widely used as components of ceramic heating pad at operation of pre- and post-weld heat treatment, welding process, stress-relieving, ship-building, other heat-resistance-environment.

Compared with hot press method in the market, it proves higher density, better surface finish and better uniformity, and can be repeatedly used much longer

## Technical Parameter

Alumina Content: 95%

Fired Density : 3.65-3.70g/cm<sup>3</sup>

Grain Size: 6um

Mohs Hardness: 9

Rockwell Hardness: 78(R45N)

Compressive Strength: 2000 MPa

Flexural Strength: 320 Mpa(ASTM C1161,3 point)

Young' s Modulus: 325 Gpa

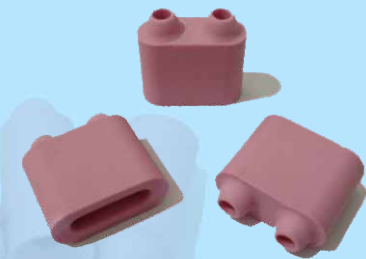
Thermal Conductivity: 21W/ m<sup>3</sup>



Main Body Beads



Main Body Beads with hole



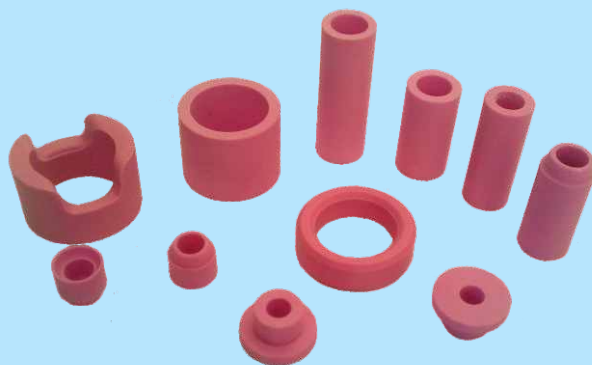
Male End Beads



Female End Beads



Small Tail Beads



Tank Track Bead

**HEATMENT**

PWHT EQUIPMENT AND CONSUMABLES

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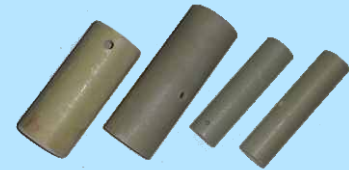
## In-line Brass Camlock Connectors

60A Male Brass Camlock with Regular Sleeve and Pin  
60A Female Brass Camlock with Regular Sleeve and Pin  
300A Male Brass Camlock with Regular Sleeve and Pin  
300A Female Brass Camlock with Regular Sleeve and Pin



In-line Brass Camlock Connectors

60A Male Brass Camlock with High Temp. Sleeve and Pin  
60A Female Brass Camlock with High Temp. Sleeve and Pin  
300A Male Brass Camlock with High Temp. Sleeve and Pin  
300A Female Brass Camlock with High Temp. Sleeve and Pin



High Temp. Sleeves

## Panel Mounted Brass Camlock

300A Female Panel Mounted Camlock Connector  
300A Male Panel Mounted Camlock Connector  
60A Female Panel Mounted Camlock Connector  
60A Male Panel Mounted Camlock Connector



60A Male



60A Female



300A Male



300A Female

## DINSE Welding Connectors

10-25mm<sup>2</sup> Dinse Welding Plug  
10-25mm<sup>2</sup> Dinse Welding Socket  
35-50mm<sup>2</sup> Dinse Welding Plug  
35-50mm<sup>2</sup> Dinse Welding Socket  
50-70mm<sup>2</sup> Dinse Welding Plug  
50-70mm<sup>2</sup> Dinse Welding Socket  
70-95mm<sup>2</sup> Dinse Welding Plug  
70-95mm<sup>2</sup> Dinse Welding Socket



Welding Connectors



Industrial Connectors

## Industrial Connectors

110V Plug & Socket  
240V Plug & Socket



Panel Mounted T/C Socket

## Type K Thermocouple Connectors

- Thermoplastic body and ceramic material body are both available.
- Solid pins and hollow pins are both available. Well designed body ensure good insulation inside, and well designed pins construct ensures good contact.
- Maximum ambient temperature for thermoplastic body continuous usage



In-line T/C Connectors

## Nichrome Heating Wire

Material: NiCr80/20, NiCr60/15  
Specification: Overall Diameter : 2.8mm  
No of Strands : For 19 Strands, 19/0.56mm  
For 37 Strands, 37/0.37mm  
Packing: 500m/roll

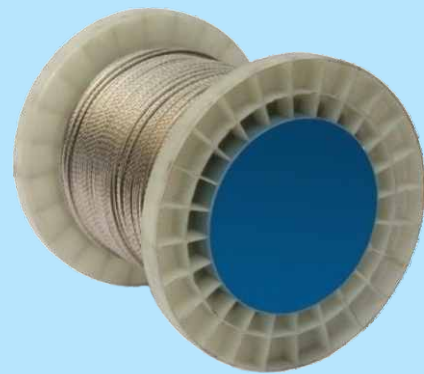


## High Temp. Heating Wire

Material: 0Cr23Al5  
Specification: Overall Diameter : 2.83mm  
No of Strands : For 19 Strands, 19/0.574mm  
Packing: 500m/roll

## Stranded Cold Tail Wire

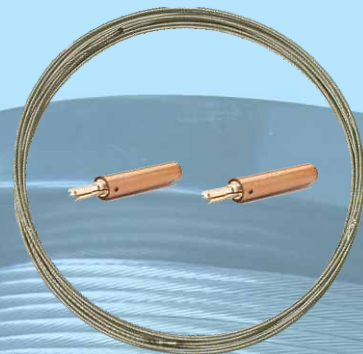
Material: 212 Pure Nickel  
Specification: overall diameter :3.0mm  
No of Strands : 19 Strands, 19/0.61mm  
Packing: 500m/roll, 100m/roll



## Heater Repair Kit

Core heating wire welded with cold tail wire, and comes with two 60A male camlock or one male and female camlock

80V heater repair kit  
60V heater repair kit





## Welding Cable

Our heavy duty flexible welding cable is highly performance and excellent flexibility to last longer applications.

The welding cable is heat and oil resistant and flame retardant (HOFR), double insulated, and best to carry the required current. The operator can easily maneuver during the welding process. It is suitable for all kind of welding generators.

- Jacket: PVC, or Rubber, double insulated
- Specification: 16mm<sup>2</sup>, 25mm<sup>2</sup>, 50mm<sup>2</sup>, 70mm<sup>2</sup>
- Color: Orange, Black, Blue
- Packing: 15m/roll, 25m/roll, 30m/roll, or 100m/roll



PVC double insulated - Welding Cable

## Triple Cable Sets

The triple cable set consists of two lengths of heat and oil resistant and flame retardant (HOFR), double insulated copper cable complete with two 300 amp female camlock connectors on one end and two 300 amp male camlock connectors on the other end. Running alongside the copper cable is a length of compensating cable which has a thermocouple plug on one end and a thermocouple socket on the opposite end.

- Specification: 16mm<sup>2</sup>, 25mm<sup>2</sup> Welding Cable
- Length: 15m, 25m, 30m



Triple Cable Set

## Single Power Cable:

- 16mm<sup>2</sup> 135A welding cable, 300A camlock,
- 25mm<sup>2</sup> 185A welding cable, 300A camlock,

Length: 15m, 25m, 30m



Single Power Cable

## Splitter Cables

- Material: 16mm<sup>2</sup> 135A Welding Cable  
60A female camlock connector  
300A male camlock connector
- Specification: 2 way splitter cable set  
3 way splitter cable set  
4 way splitter cable set  
5 way splitter cable set



Splitter Cables



## Type K Thermocouple Wires

Type K thermocouple wire, insulated with high temperature glass braid, is used to convert the thermal energy at the hot junction of thermocouple to an electrical mV signal which can then be used by temperature control and recording instruments to accurately record and control the temperature of the item being heat treated.

- Type K - Grade A, Accuracy  $\pm 1.1^{\circ}\text{C}$
- Two core conductors insulated by glass-fiber twisted together
- Material : 2x0.71 mm, or 2x0.65mm NiCr /NiSi
- Max Working Temperature :  $704^{\circ}\text{C}$
- Conforms to Standard : GB/T 2614-2010  
BSEN 60584-2,  
ASTM E230-1993,  
ANSI MC96.1-1982,  
IEC 584-2:1982
- Jacket Colour : Red (-) / Yellow (+), or Green(-) / White(+)



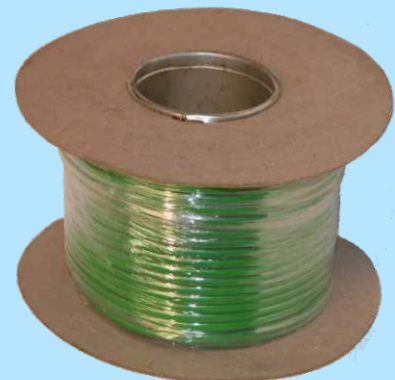
K Type Thermocouple Wire



KX Type Thermocouple Extension Wire

## Type K Thermocouple Wires

- Grade A, Accuracy  $\pm 1.5^{\circ}\text{C}$
- Laid flat heat-resistant PVC covered conductors with an overall sheath of PVC ( $-25 \sim 105^{\circ}\text{C}$ )
- Material : 2 x 7/0.2mm NiCr/NiSi
- Max Working Temperature :  $105^{\circ}\text{C}$
- Standard : Conforms to: BS 4937 Part 30, 1993  
ASTM E230-1993,  
ISA MC96.1-1982,  
IEC 584-3:1989. mod,  
IEC 584-2:1982,  
IEC 584-2:1982
- Jacket Colour : Outer - Green;  
Inner Green (-) and White (+)



KC Type Compensating Cable-Green

## Type K Thermocouple Compensating Cable

- PVC Double Insulated
- Materials : 2 x 13/0.2mm Copper/Constantan
- Max Working Temperature :  $105^{\circ}\text{C}$
- Standard: Conforms to: ASTM E230-1993,  
ISA MC96.1-1982,  
IEC 584-3:1989. mod,  
IEC 584-2:1982,  
IEC 584-2:1982
- Jacket Colour : Outer - Red,  
Inner - Blue (-) and White (+)



KC Type Compensating Cable-Red

The **CHINO EH3000** Series is a dot pring type analogue recorder sized 288x288mm with 180mm width chart. Recording point are 5 kinds, 1 point to 12 points and records clearly temperature, pressure, flow, level, etc. at regular interval.



EH3000 Series

The **CHINO EH100** series analogue Chino temperature recorder has been selected as ideal for the rigorous of site heat treatment. The recorder design is potentiometric, self-compensating for ambient temperature and operates over the temperature range 0-1200°C.

The internal power supply and chart drive switches are readily accessible. The chart drive can be varied to suit the heat treatment specification or conditions. The temperature charts extend for up to 400 hours for a chart speed of 50mm/hour. The scale and chart are illuminated



EH100 Series

The recorders can be housed within a rugged steel casing and is fitted with rear polarised socket connections for the widely used Type K thermocouple to compensating lead connections, to prevent reading errors. A flying lead is also fitted to the rear of the case to for the 110VAC input power from the heat treatment transformer.



EH100 series Rugged Steel Cased Recorder



Thermocouple Attachment Unit



Calibration Unit



Link Set



T/C Connectors



Cassette Ribbon



Ink Set

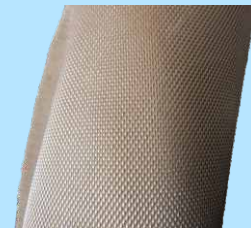
## Ceramic Fiber Blanket

Ceramic Fibre 96kg Density, 25mm x 610mm x 96kg x 7.20m  
Ceramic Fibre 96kg Density, 50mm x 610mm x 96kg x 3.60m  
Ceramic Fibre 128kg Density, 25mm x 610mm x 128kg x 7.32m  
Ceramic Fibre 128kg Density, 50mm x 610mm x 128kg x 3.66m



## Silicone Cloth

0.65mm x 1m      x 50m/100m  
0.76mm x 0.92m    x 50m/100m  
1mm x 1m        x 50m/100m



## S/S Wire Mesh

Stainless Steel Mesh 100mm Wide, 10kg Roll  
Stainless Steel Mesh 127mm Wide, 10kg Roll  
Stainless Steel Mesh 330mm Wide, 15kg Roll  
Stainless Steel Mesh 635mm Wide, 25kg Roll



## Meshed Mat

128kg Density 300mm x 300mm x 25mm  
128kg Density 300mm x 600mm x 25mm  
128kg Density 300mm x 900mm x 25mm  
128kg Density 600mm x 600mm x 25mm  
128kg Density 600mm x 900mm x 25mm  
128kg Density 600mm x 1200mm x 25mm  
128kg Density 600mm x 1800mm x 25mm



## Insulation Pin Welding Machine





## Miscellaneous Accessories & Consumables

**HeatMent®**  
We treat the heat



Banding Machine



S/S Banding Straps



S/S Banding Buckles



Soft Black Iron Tie Wire



Thermocouple Attachment Unit



Link Set



Welding Cable



Contactors



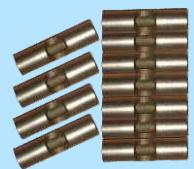
Copper Shim



Chart Paper



Magnet



Welding Ferrule

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