



INDIA PRIVATE LIMITED

## ***LOW VOLTAGE HEAT TREATMENT CONTROL UNIT CATALOG***

### **PWHT Power source (Transformer Heating Modules)**

is designed with good quality, cost effective, and reliability having been successfully operated with most of the heat treatment /stress relieving services provider and NDT companies in industrial environments/ Errection projects all over the country, for over 35 years. The unit consists of a robust, natural air cooled, 3 phase transformer which is built into a compactly designed, MS Body with wheels, bolts and handle for easy movement and handling. Each output channel is controlled by means of an internal energy regulator and a digital temperature controller. Switching between manual and automatic control mode is made via each channel's auto/manual selector switch. Six independent temperature controllers allow the operator to control up to six control zones simultaneously.

### **PRODUCT ID: PWHT TECH – 4001:**

|                          |   |
|--------------------------|---|
| <b>Rating</b>            | 75KVA   |
| <b>Input Voltage</b>     | 380-415-4403 Phase @ 60HZ /50HZ                                 |
| <b>Input Production</b>  | 125 AMP three -phase circuit breaker MCCB                       |
| <b>Production</b>        | Core winding thermostats / sensors to protect coil overheating  |
| <b>Output Voltage</b>    | 60 or 80 VAC, single phase (selectable) Power -12.5KVA          |
| <b>Number of Zones</b>   | 6(SIX) / Optional 12 & 24 Channels                              |
| <b>Cooling fan</b>       | Two Numbers   |
| <b>Control Power</b>     | 1.2 KVA transformer, 220 VAC, Single phase for Control circuit. |
| <b>Utility Power</b>     | 220 VAC supply, single phase                                    |
| <b>Temperature Range</b> | 0-1200° c   |
| <b>Thermocouple Type</b> | "K"   |

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# PWHT TECH

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## ACCESSORIES AND CONSUMBLES CATALOG

### PRODUCT ID: PWHT TECH – 4002:

#### ❖ *Temperature Recorder EH3127-001 (12 point)*

| Product image   | Product Description   |
|---|---|
|  | <p><b>Chino EH3127-001 Twelve Point Temperature Recorder</b><br/>A popular, robust and simple to operate, analogue, temperature chart recorder used within the heat treatment industry throughout the world.</p> <p><b>Applications:</b><br/>Used for recording pre and post weld heat treatment processes up to 1200°C, in conjunction with Globe's range of mobile power source transformer heat treatment units. The recorder is housed within a resilient, powder coated, mild steel* case enabling it to withstand normal site conditions in all regions of the world.</p> |

#### Features:

- Twelve type K thermocouple sockets fitted to the rear of the unit
- Six chart speeds (12.5, 25, 50, 75, 100, 150 mm/h)
- Chart and scale illumination allowing the operator to view the chart detail low light conditions
- High level of accuracy  $\pm 0.25\%$
- Twelve separate colour traces for clear identification of each temperature trace on the chart.
- One EH05035 (0-1200°C) chart paper supplied as standard
- Ergonomic folding handle fitted to each side of the case
- °F version available on request

| Specification                |   |
|------------------------------|---|
| Supply Voltage               | 110V AC @ 50/60 Hz (230V AC available on request)                                       |
| Thermocouple Input           | Type K (NiCr/NiAl)  |
| Recording System             | Twelve colour dotting inkpad  |
| Temperature Recording Range  | 0 to 1200° C  |
| Measurement Accuracy         | $\pm 0.25\%$  |
| Illumination                 | White LED lamp with three user selectable levels of brightness or off.                  |
| Operating Temperature        | 0 to 50° C ( Storage: -20 to 40° C: 5 to 90%RH, 40 to 60° C: 5 to 65%RH)                |
| Replacement chart paper pack | EH05035 (0-1200°C) Chino chart  |
| Case Material                | Standard unit is powder coated, mild steel (*stainless steel case available on request) |
| Dimensions                   | 430mm x 355mm x 365mm   |
| Weight                       | 18 kg   |
| Design Standards             | EMC: EN 61326-1, LVD: EN 61010-1  |

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**PRODUCT ID: PWHT TECH – 4003:**

❖ *Temperature Recorder AH4712-EOA (12 point)*

| Product Image   | Product Description   |
|---|---|
|  | <p><b>Chino AH4712-EOA Twelve Point Temperature Recorder</b><br/>                     The AH4712-EOA is a hybrid analogue/digital temperature recorder with an LCD screen displaying the twelve channel's temperature values either one channel at a time, or multiple channels at the same time with the option for digital display and simultaneous bar graph display. The recorder has the facility of printing to the paper chart and saving the data to SD card (sold separately) which can then be displayed on a PC using Report Maker software (sold separately) or the measurement data can be saved as a CSV file and displayed in an Excel worksheet. The recorder can also be connected to a network and monitored using the supplied software or from a web browser.</p> <p><b>Applications</b><br/>                     For recording pre and post weld heat treatment processes up to 1200°C. The recorder is housed within a resilient powder coated, mild steel* case enabling it to withstand normal site conditions in all regions of the world.</p> |

**Features:**

- Twelve type K thermocouple sockets fitted to the rear of the unit
- Chart speeds 1 to 1500mm /hour in 1mm Increments
- Chart and scale illumination allowing the operator to view the chart detail in low light conditions
- One EH05035 (0-1200°C) chart paper supplied as standard
- SD Card (supplied separately GHT 2514) to export data to PC via report maker software (supplied separately GHT 2482)
- Ethernet connection for Web Viewer and E-mail Alarm notifications (via supplied software - KIDS)
- 4 Alarm Types (no relay output)
- Ergonomic folding handle fitted to each side of the case

| Specification                |   |
|------------------------------|---|
| Supply Voltage               | 110V AC @ 50/60 Hz (230V AC available on request)                                       |
| Thermocouple Input           | Type K (NiCr/NiAl), Twelve Channels   |
| Recording System             | Wire-dot type six-colour ribbon: Dotting Interval 5 or 2.5 seconds/point                |
| Temperature Recording Range  | 0 to 1200° C  |
| Digital display              | Full dot monochrome LCD 264 x 48 dots Display area 184 x 22mm                           |
| Measurement Accuracy         | ±0.1%FS ±1digit   |
| Illumination                 | White LED backlight (turned off after 3-minute unused period when selecting AUTO)       |
| Operating Temperature        | 0 to 50° C (20 to 65%RH, non-condensing)  |
| Replacement chart paper pack | EH05035 (0-1200°C) Chino chart  |
| Case Material                | Standard unit is powder coated, mild steel (*stainless steel case available on request) |
| Dimensions                   | 430mm x 355mm x 365mm   |
| Weight                       | 18 kg   |
| Design Standards             | EMC: EN 61326-1, LVD: EN 61010-1  |

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**PRODUCT ID: PWHT TECH – 4003:**

❖ *Thermocouple attachment unit*



|                               |   |
|-------------------------------|---|
| <b>Model Number</b>           | PWHT/TAU/2018-01  |
| <b>Battery Voltage</b>        | 230 Volts   |
| <b>Battery Capacity</b>       | 12V   |
| <b>Thermocouple Diameters</b> | 0.5, 1 & 2mm selectable   |
| <b>Battery Monitor</b>        | Monitoring LED and Automatic Full Discharge Protection  |
| <b>Number of Discharges</b>   | Approximately 3000 on setting 2 at a rate of 200 discharges per day with fully charged battery. |
| <b>Length</b>                 | 320mm   |
| <b>Width</b>                  | 190mm   |
| <b>Height</b>                 | 125mm   |
| <b>Weight</b>                 | 6.5kg   |

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**PWHT TECH** splitter cables are made from 10mm<sup>2</sup> HOFRR double insulated copper cable in one meter lengths. The splitters are available in both black and orange coloured sheath making the feed and return connections easily identifiable. The splitters have a 300A male twist lock at the end which connects to a triple cable set and a 60A twist lock is fitted on each of the splitter legs which connect to the ceramic pad heating elements. Care should be taken to ensure that the suitable splitter is selected for the current rating of the heat treatment unit output channel and triple cable set being used.

## ❖ *Splitter Cable:*

| Product Image   | Product Description   |
|---|---|
|   | <b>PRODUCT ID: PWHT TECH – 4004:</b><br><b>Product:</b> 2 way splitter 10mm <sup>2</sup> cable, 1m long in black cable<br><b>Application:</b> For use with all triple cable sets to connect up to 2 heaters into one control group  |
|  | <b>PRODUCT ID: PWHT TECH – 4005:</b><br><b>Product:</b> 2 way splitter 10mm <sup>2</sup> cable, 1m long in orange cable<br><b>Application:</b> For use with all triple cable sets to connect up to 2 heaters into one control group |
|  | <b>PRODUCT ID: PWHT TECH – 4006:</b><br><b>Product:</b> 3 way splitter 10mm <sup>2</sup> cable, 1m long in black cable<br><b>Application:</b> For use with all triple cable sets to connect up to 3 heaters into one control group  |
|  | <b>PRODUCT ID: PWHT TECH – 4007:</b><br><b>Product:</b> 3 way splitter 10mm <sup>2</sup> cable, 1m long in orange cable<br><b>Application:</b> For use with all triple cable sets to connect up to 3 heaters into one control group |

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|   |   |
|---|---|
|   | group   |
|    | <b>PRODUCT ID: PWHT TECH – 4008:</b><br><b>Product:</b> 4 way splitter 10mm <sup>2</sup> cable, 1m long in black cable<br><b>Application:</b> For use with 180A and 225A triple cable sets to connect up to 4 heaters into one control group  |
|    | <b>PRODUCT ID: PWHT TECH – 4009:</b><br><b>Product:</b> 4 way splitter 10mm <sup>2</sup> cable, 1m long in orange cable<br><b>Application:</b> For use with 180A and 225A triple cable sets to connect up to 4 heaters into one control group |
|   | <b>PRODUCT ID: PWHT TECH – 4010:</b><br><b>Product:</b> 5 way splitter 10mm <sup>2</sup> cable, 1m long in black cable<br><b>Application:</b> For use with 225A triple cable sets to connect up to 5 heaters into one control group           |
|  | <b>PRODUCT ID: PWHT TECH – 4011:</b><br><b>Product:</b> 5 way splitter 10mm <sup>2</sup> cable, 1m long in orange cable<br><b>Application:</b> For use with 225A triple cable sets to connect up to 5 heaters into one control group          |

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❖ *Triple cable set:*

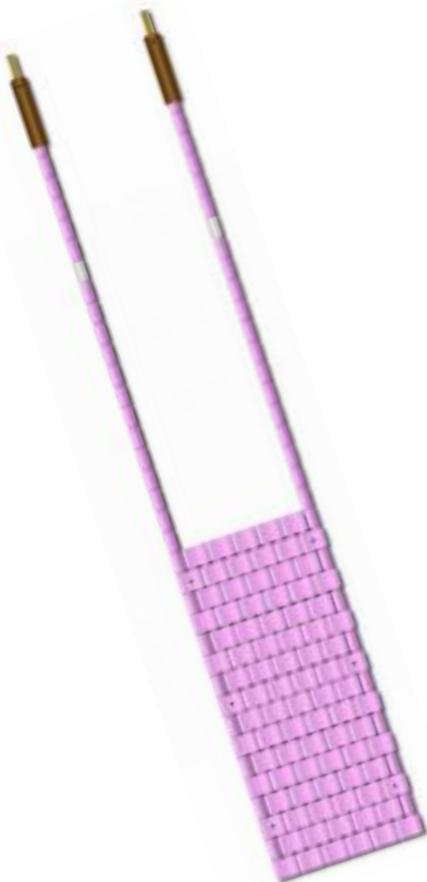
| Product Image  | Product Description  |
|--|--|
|  | <p><b>PRODUCT ID: PWHT TECH – 4012:</b></p> <p>The <b>triple cable set</b> consists of two 30m lengths of heat and oil resistant and flame retardant (HOFR), double insulated 16mm copper cable and one 30 length of compensating cable. The end of the cables that connect to a heat treatment unit are fitted with 300A male twist lock connectors on the two HOFR cables and a thermocouple plug on the compensating cable. The other end of the cables, that connect to the splitter cables and thermocouple at the work piece being heat treated, are fitted with 300A female twist lock connectors on the two HOFR cables and a thermocouple socket on the compensating cable.</p> <p><b>Application:</b></p> <p>For use with heat treatment units to provide power and thermocouple connection to a heater control zone of up to 3 heaters.</p> |

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❖ *Ceramic Heating Element:*

| Product image  | Product Description   |               |  |                   |                 |                    |                  |                 |       |                  |       |         |      |         |      |       |        |           |  |                |                     |               |                        |       |  |
|--|---|---------------|--|-------------------|-----------------|--------------------|------------------|-----------------|-------|------------------|-------|---------|------|---------|------|-------|--------|-----------|--|----------------|---------------------|---------------|------------------------|-------|--|
|  | <p><b>PRODUCT ID: PWHT TECH – 4013:</b><br/> <b>Product Description: Ceramic Heating Element 6 beads x 16 beads, 60V, 2.7kW</b></p> <p>Our flexible, ceramic pad heaters are constructed from high quality, European manufactured, sintered aluminium ceramic beads, high grade 19 strand, 80/20 Nickel/Chrome (Ni/Cr) core wire, and 7 strand 212 Nickel cold tail with fitted 60A Twist lock plugs.</p> <p><b>Applications:</b><br/> Typically used for post weld heat treatment of thick wall pipe welds and preheating up 1,050°C</p> <table border="1" data-bbox="610 930 1563 1543"> <thead> <tr> <th colspan="2">Specification</th> </tr> </thead> <tbody> <tr> <td>Heater body width</td> <td>6 beads (150mm)</td> </tr> <tr> <td>Heater body length</td> <td>16 beads (335mm)</td> </tr> <tr> <td>Hot tail length</td> <td>300mm</td> </tr> <tr> <td>Cold tail length</td> <td>200mm</td> </tr> <tr> <td>Voltage</td> <td>60 V</td> </tr> <tr> <td>Current</td> <td>45 A</td> </tr> <tr> <td>Power</td> <td>2.7 kW</td> </tr> <tr> <td>Core Wire</td> <td>19 strand, 80/20 Nickel/Chrome (Ni/Cr)</td> </tr> <tr> <td>Cold tail wire</td> <td>7 strand 212 Nickel</td> </tr> <tr> <td>Bead material</td> <td>95% Sintered Aluminium</td> </tr> <tr> <td>Plugs</td> <td>2 x 60 A twistlock plugs as standard (also available with Dinse plugs)</td> </tr> </tbody> </table> <p><b>Features:</b></p> <ul style="list-style-type: none"> <li>• Flexible</li> <li>• Versatile</li> <li>• Reliable</li> <li>• Durable</li> <li>• Competitively priced</li> </ul> | Specification |  | Heater body width | 6 beads (150mm) | Heater body length | 16 beads (335mm) | Hot tail length | 300mm | Cold tail length | 200mm | Voltage | 60 V | Current | 45 A | Power | 2.7 kW | Core Wire | 19 strand, 80/20 Nickel/Chrome (Ni/Cr) | Cold tail wire | 7 strand 212 Nickel | Bead material | 95% Sintered Aluminium | Plugs | 2 x 60 A twistlock plugs as standard (also available with Dinse plugs) |
|  | Specification   |               |  |                   |                 |                    |                  |                 |       |                  |       |         |      |         |      |       |        |           |  |                |                     |               |                        |       |  |
| Heater body width  | 6 beads (150mm)   |               |  |                   |                 |                    |                  |                 |       |                  |       |         |      |         |      |       |        |           |  |                |                     |               |                        |       |  |
| Heater body length   | 16 beads (335mm)  |               |  |                   |                 |                    |                  |                 |       |                  |       |         |      |         |      |       |        |           |  |                |                     |               |                        |       |  |
| Hot tail length  | 300mm   |               |  |                   |                 |                    |                  |                 |       |                  |       |         |      |         |      |       |        |           |  |                |                     |               |                        |       |  |
| Cold tail length   | 200mm   |               |  |                   |                 |                    |                  |                 |       |                  |       |         |      |         |      |       |        |           |  |                |                     |               |                        |       |  |
| Voltage  | 60 V  |               |  |                   |                 |                    |                  |                 |       |                  |       |         |      |         |      |       |        |           |  |                |                     |               |                        |       |  |
| Current  | 45 A  |               |  |                   |                 |                    |                  |                 |       |                  |       |         |      |         |      |       |        |           |  |                |                     |               |                        |       |  |
| Power  | 2.7 kW  |               |  |                   |                 |                    |                  |                 |       |                  |       |         |      |         |      |       |        |           |  |                |                     |               |                        |       |  |
| Core Wire  | 19 strand, 80/20 Nickel/Chrome (Ni/Cr)  |               |  |                   |                 |                    |                  |                 |       |                  |       |         |      |         |      |       |        |           |  |                |                     |               |                        |       |  |
| Cold tail wire   | 7 strand 212 Nickel   |               |  |                   |                 |                    |                  |                 |       |                  |       |         |      |         |      |       |        |           |  |                |                     |               |                        |       |  |
| Bead material  | 95% Sintered Aluminium  |               |  |                   |                 |                    |                  |                 |       |                  |       |         |      |         |      |       |        |           |  |                |                     |               |                        |       |  |
| Plugs  | 2 x 60 A twistlock plugs as standard (also available with Dinse plugs)  |               |  |                   |                 |                    |                  |                 |       |                  |       |         |      |         |      |       |        |           |  |                |                     |               |                        |       |  |

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**PRODUCT ID: PWHT TECH – 4014:**

**Ceramic Heating Element 10 beads x 10 beads, 60V, 2.7kW**

Our flexible, ceramic pad heaters are constructed from high quality, European manufactured, sintered aluminium ceramic beads, high grade 19 strand, 80/20 Nickel/Chrome (Ni/Cr) core wire, and 7 strand 212 Nickel cold tail with fitted 60A twist lock plugs.

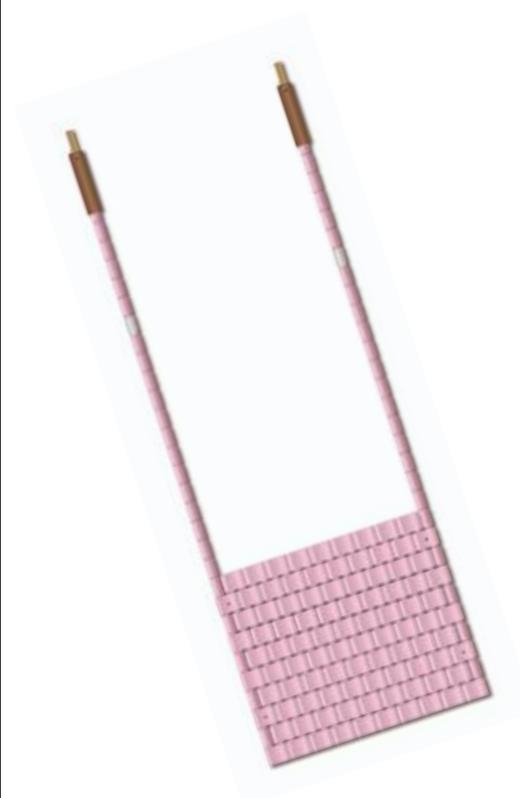
**Applications:**

One of the most versatile heater sizes typically used for post weld heat treatment and preheating of a wide range of pipe weld diameters up 1,050C

| Specification      |  |
|--------------------|--|
| Heater body width  | 10 beads (255mm)   |
| Heater body length | 10 beads (210mm)   |
| Hot tail length    | 300mm  |
| Cold tail length   | 200mm  |
| Voltage            | 60 V   |
| Current            | 45 A   |
| Power              | 2.7 kW   |
| Core Wire          | 19 strand, 80/20 Nickel/Chrome (Ni/Cr)                                 |
| Cold tail wire     | 7 strand 212 Nickel  |
| Bead material      | 95% Sintered Aluminium   |
| Plugs              | 2 x 60 A twistlock plugs as standard (also available with Dinse plugs) |

**Features:**

- Flexible
- Versatile
- Reliable
- Durable
- Competitively priced



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**PRODUCT ID: PWHT TECH – 4015:**

**Ceramic Heating Element 15 beads x 7 beads, 60V, 2.7kW**

Our flexible, ceramic pad heaters are constructed from high quality, European manufactured, sintered aluminium ceramic beads, high grade 19 strand, 80/20 Nickel/Chrome (Ni/Cr) core wire, and 7 strand 212 Nickel cold tail with fitted 60A twistlock plugs.

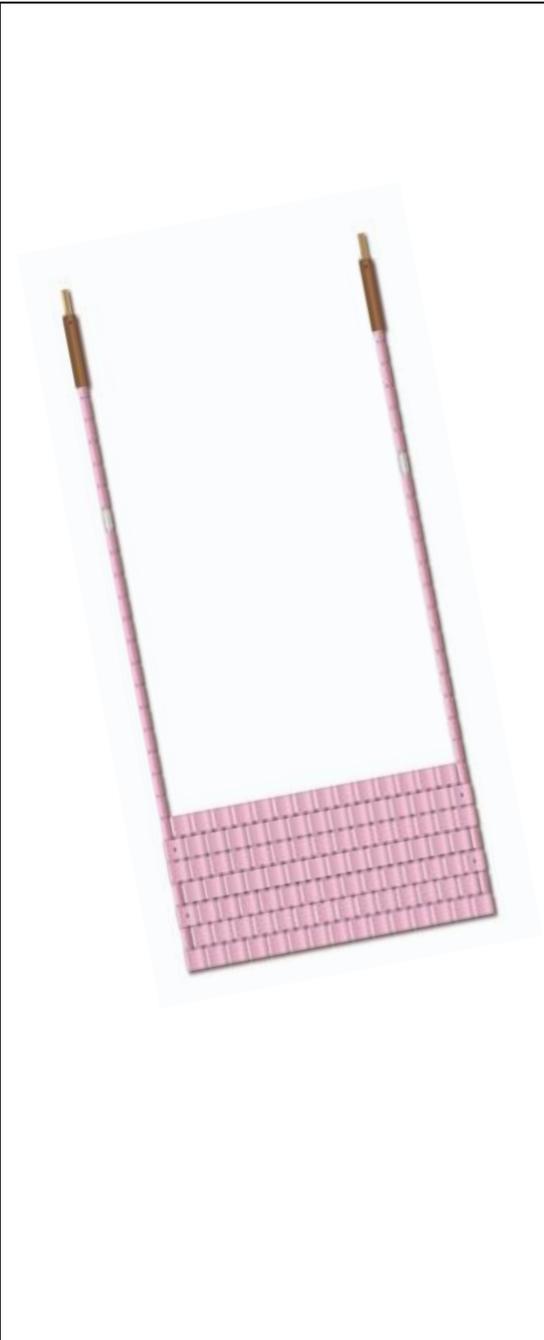
**Applications:**

One of the most versatile heater sizes typically used for post weld heat treatment and preheating of a wide range of pipe weld diameters up 1,050C

| Specification      |  |
|--------------------|--|
| Heater body width  | 15 beads (380mm)   |
| Heater body length | 7 beads (145mm)  |
| Hot tail length    | 300mm  |
| Cold tail length   | 200mm  |
| Voltage            | 60 V   |
| Current            | 45 A   |
| Power              | 2.7 kW   |
| Core Wire          | 19 strand, 80/20 Nickel/Chrome (Ni/Cr)                                 |
| Cold tail wire     | 7 strand 212 Nickel  |
| Bead material      | 95% Sintered Aluminium   |
| Plugs              | 2 x 60 A twistlock plugs as standard (also available with Dinse plugs) |

**Features:**

- Flexible
- Versatile
- Reliable
- Durable
- Competitively priced



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| Product Image   | Product Description   |               |  |                   |                  |                    |                 |                 |       |                  |       |         |      |         |      |       |        |           |  |                |                     |               |                        |       |  |
|---|---|---------------|--|-------------------|------------------|--------------------|-----------------|-----------------|-------|------------------|-------|---------|------|---------|------|-------|--------|-----------|--|----------------|---------------------|---------------|------------------------|-------|--|
|  | <p><b>PRODUCT ID: PWHT TECH – 4016:</b><br/><b>Ceramic Heating Element 21 beads x 5 beads, 60V, 2.7kW</b></p> <p>Our flexible, ceramic pad heaters are constructed from high quality, European manufactured, sintered aluminium ceramic beads, high grade 19 strand, 80/20 Nickel/Chrome (Ni/Cr) core wire, and 7 strand 212 Nickel cold tail with fitted 60A twist lock plugs.</p> <p><b>Applications:</b><br/>One of the most versatile heater sizes typically used for post weld heat treatment and preheating of a wide range of pipe weld diameters up to 1,050C</p> <table border="1" data-bbox="743 884 1539 1535"><thead><tr><th colspan="2">Specification</th></tr></thead><tbody><tr><td>Heater body width</td><td>21 beads (535mm)</td></tr><tr><td>Heater body length</td><td>5 beads (100mm)</td></tr><tr><td>Hot tail length</td><td>300mm</td></tr><tr><td>Cold tail length</td><td>200mm</td></tr><tr><td>Voltage</td><td>60 V</td></tr><tr><td>Current</td><td>45 A</td></tr><tr><td>Power</td><td>2.7 kW</td></tr><tr><td>Core Wire</td><td>19 strand, 80/20 Nickel/Chrome (Ni/Cr)</td></tr><tr><td>Cold tail wire</td><td>7 strand 212 Nickel</td></tr><tr><td>Bead material</td><td>95% Sintered Aluminium</td></tr><tr><td>Plugs</td><td>2 x 60 A twistlock plugs as standard (also available with Dinse plugs)</td></tr></tbody></table> <p><b>Features:</b></p> <ul style="list-style-type: none"><li>• Flexible</li><li>• Versatile</li><li>• Reliable</li><li>• Durable</li><li>• Competitively priced</li></ul> | Specification |  | Heater body width | 21 beads (535mm) | Heater body length | 5 beads (100mm) | Hot tail length | 300mm | Cold tail length | 200mm | Voltage | 60 V | Current | 45 A | Power | 2.7 kW | Core Wire | 19 strand, 80/20 Nickel/Chrome (Ni/Cr) | Cold tail wire | 7 strand 212 Nickel | Bead material | 95% Sintered Aluminium | Plugs | 2 x 60 A twistlock plugs as standard (also available with Dinse plugs) |
|   | Specification   |               |  |                   |                  |                    |                 |                 |       |                  |       |         |      |         |      |       |        |           |  |                |                     |               |                        |       |  |
| Heater body width   | 21 beads (535mm)  |               |  |                   |                  |                    |                 |                 |       |                  |       |         |      |         |      |       |        |           |  |                |                     |               |                        |       |  |
| Heater body length  | 5 beads (100mm)   |               |  |                   |                  |                    |                 |                 |       |                  |       |         |      |         |      |       |        |           |  |                |                     |               |                        |       |  |
| Hot tail length   | 300mm   |               |  |                   |                  |                    |                 |                 |       |                  |       |         |      |         |      |       |        |           |  |                |                     |               |                        |       |  |
| Cold tail length  | 200mm   |               |  |                   |                  |                    |                 |                 |       |                  |       |         |      |         |      |       |        |           |  |                |                     |               |                        |       |  |
| Voltage   | 60 V  |               |  |                   |                  |                    |                 |                 |       |                  |       |         |      |         |      |       |        |           |  |                |                     |               |                        |       |  |
| Current   | 45 A  |               |  |                   |                  |                    |                 |                 |       |                  |       |         |      |         |      |       |        |           |  |                |                     |               |                        |       |  |
| Power   | 2.7 kW  |               |  |                   |                  |                    |                 |                 |       |                  |       |         |      |         |      |       |        |           |  |                |                     |               |                        |       |  |
| Core Wire   | 19 strand, 80/20 Nickel/Chrome (Ni/Cr)  |               |  |                   |                  |                    |                 |                 |       |                  |       |         |      |         |      |       |        |           |  |                |                     |               |                        |       |  |
| Cold tail wire  | 7 strand 212 Nickel   |               |  |                   |                  |                    |                 |                 |       |                  |       |         |      |         |      |       |        |           |  |                |                     |               |                        |       |  |
| Bead material   | 95% Sintered Aluminium  |               |  |                   |                  |                    |                 |                 |       |                  |       |         |      |         |      |       |        |           |  |                |                     |               |                        |       |  |
| Plugs   | 2 x 60 A twistlock plugs as standard (also available with Dinse plugs)  |               |  |                   |                  |                    |                 |                 |       |                  |       |         |      |         |      |       |        |           |  |                |                     |               |                        |       |  |

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**PRODUCT ID: PWHT TECH – 4017:**

**Ceramic Heating Element 3 beads x 32 beads, 60V, 2.7kW**

Our flexible, ceramic pad heaters are constructed from high quality, European manufactured, sintered aluminium ceramic beads, high grade 19 strand, 80/20 Nickel/Chrome (Ni/Cr) core wire, and 7 strand 212 Nickel cold tail with fitted 60A twist lock plugs.

**Applications:**

Typically used for post weld heat treatment of thick wall pipe welds and preheating up 1,050°C

| Specification      |  |
|--------------------|--|
| Heater body width  | 3 beads (75mm)   |
| Heater body length | 8 beads (660mm)  |
| Hot tail length    | 300mm  |
| Cold tail length   | 200mm  |
| Voltage            | 60 V   |
| Current            | 45 A   |
| Power              | 2.7 kW   |
| Core Wire          | 19 strand, 80/20 Nickel/Chrome (Ni/Cr)                                 |
| Cold tail wire     | 7 strand 212 Nickel  |
| Bead material      | 95% Sintered Aluminium   |
| Plugs              | 2 x 60 A twistlock plugs as standard (also available with Dinse plugs) |

**Features:**

- Flexible
- Versatile
- Reliable
- Durable
- Competitively priced

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**PRODUCT ID: PWHT TECH – 4018:**

**Ceramic Heating Element 4 beads x 24 beads,  
60V, 2.7kW**

Our flexible, ceramic pad heaters are constructed from high quality, European manufactured, sintered aluminium ceramic beads, high grade 19 strand, 80/20 Nickel/Chrome (Ni/Cr) core wire, and 7 strand 212 Nickel cold tail with fitted 60A twist lock plugs.

**Applications:**

Typically used for post weld heat treatment of thick wall pipe welds and preheating up 1,050°C



| Specification      |  |
|--------------------|--|
| Heater body width  | 4 beads (100mm)  |
| Heater body length | 24 beads (495mm)   |
| Hot tail length    | 300mm  |
| Cold tail length   | 200mm  |
| Voltage            | 60 V   |
| Current            | 45 A   |
| Power              | 2.7 kW   |
| Core Wire          | 19 strand, 80/20 Nickel/Chrome (Ni/Cr)                                 |
| Cold tail wire     | 7 strand 212 Nickel  |
| Bead material      | 95% Sintered Aluminium   |
| Plugs              | 2 x 60 A twistlock plugs as standard (also available with Dinse plugs) |

**Features:**

- Flexible
- Versatile
- Reliable
- Durable
- Competitively priced

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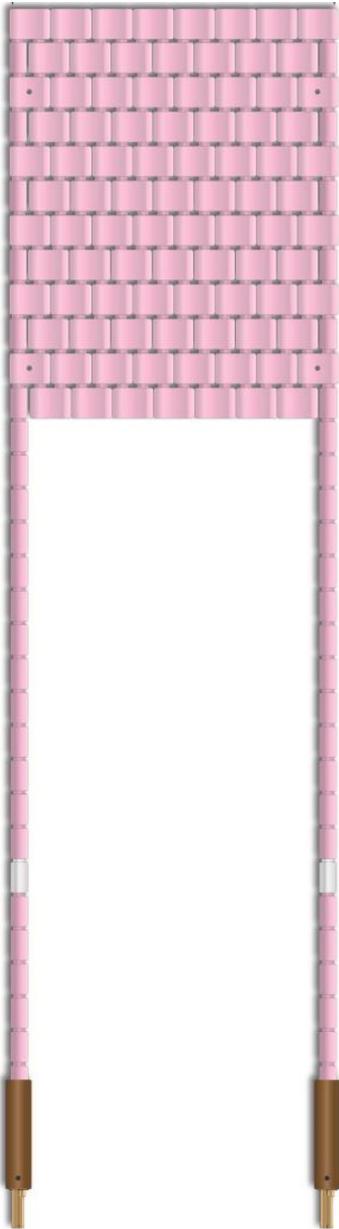
**PRODUCT ID: PWHT TECH – 4019:**

**Ceramic Heating Element 8 beads x 12 beads,  
60V, 2.7kW**

Our flexible, ceramic pad heaters are constructed from high quality, European manufactured, sintered aluminium ceramic beads, high grade 19 strand, 80/20 Nickel/Chrome (Ni/Cr) core wire, and 7 strand 212 Nickel cold tail with fitted 60A twist lock plugs.

**Applications:**

One of the most versatile heater sizes typically used for post weld heat treatment and preheating of a wide range of pipe weld diameters up to 1,050°C



| Specification      |  |
|--------------------|--|
| Heater body width  | 8 beads (200mm)  |
| Heater body length | 12 beads (255mm)   |
| Hot tail length    | 300mm  |
| Cold tail length   | 200mm  |
| Voltage            | 60 V   |
| Current            | 45 A   |
| Power              | 2.7 kW   |
| Core Wire          | 19 strand, 80/20 Nickel/Chrome (Ni/Cr)                                 |
| Cold tail wire     | 7 strand 212 Nickel  |
| Bead material      | 95% Sintered Aluminium   |
| Plugs              | 2 x 60 A twistlock plugs as standard (also available with Dinse plugs) |

**Features:**

- Flexible
- Versatile
- Reliable
- Durable
- Competitively priced

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**PRODUCT ID: PWHT TECH – 4020:**

**Ceramic Heating Element 12 beads x 8 beads,  
60V, 2.7kW**

Our flexible, ceramic pad heaters are constructed from high quality, European manufactured, sintered aluminium ceramic beads, high grade 19 strand, 80/20 Nickel/Chrome (Ni/Cr) core wire, and 7 strand 212 Nickel cold tail with fitted 60A Twist lock plugs.

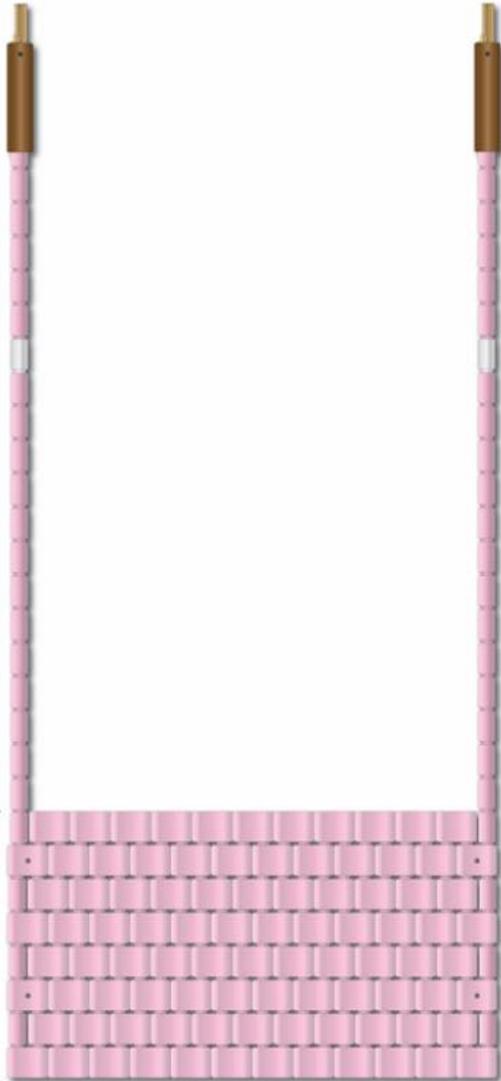
**Applications:**

One of the most versatile heater sizes typically used for post weld heat treatment and preheating of a wide range of pipe weld diameters up to 1,050°C

| Specification      |   |
|--------------------|---|
| Heater body width  | 12 beads (305mm)  |
| Heater body length | 8 beads (170mm)   |
| Hot tail length    | 300mm   |
| Cold tail length   | 200mm   |
| Voltage            | 60 V  |
| Current            | 45 A  |
| Power              | 2.7 kW  |
| Core Wire          | 19 strand, 80/20 Nickel/Chrome (Ni/Cr)                                  |
| Cold tail wire     | 7 strand 212 Nickel   |
| Bead material      | 95% Sintered Aluminium  |
| Plugs              | 2 x 60 A twist lock plugs as standard (also available with Dinse plugs) |

**Features:**

- Flexible
- Versatile
- Reliable
- Durable
- Competitively priced



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INDIA PRIVATE LIMITED

**PRODUCT ID: PWHT TECH – 4021:**

**Ceramic Heating Element 16 beads x 6 beads,  
60V, 2.7kW**

Our flexible, ceramic pad heaters are constructed from high quality, European manufactured, sintered aluminium ceramic beads, high grade 19 strand, 80/20 Nickel/Chrome (Ni/Cr) core wire, and 7 strand 212 Nickel cold tail with fitted 60A Twist lock plugs.

**Applications:**

One of the most versatile heater sizes typically used for post weld heat treatment and preheating of a wide range of pipe weld diameters up 1,050°C



| Specification      |  |
|--------------------|--|
| Heater body width  | 16 beads (405mm)   |
| Heater body length | 6 beads (125mm)  |
| Hot tail length    | 300mm  |
| Cold tail length   | 200mm  |
| Voltage            | 60 V   |
| Current            | 45 A   |
| Power              | 2.7 kW   |
| Core Wire          | 19 strand, 80/20 Nickel/Chrome (Ni/Cr)                                 |
| Cold tail wire     | 7 strand 212 Nickel  |
| Bead material      | 95% Sintered Aluminium   |
| Plugs              | 2 x 60 A twistlock plugs as standard (also available with Dinse plugs) |

**Features:**

- Flexible
- Versatile
- Reliable
- Durable
- Competitively priced

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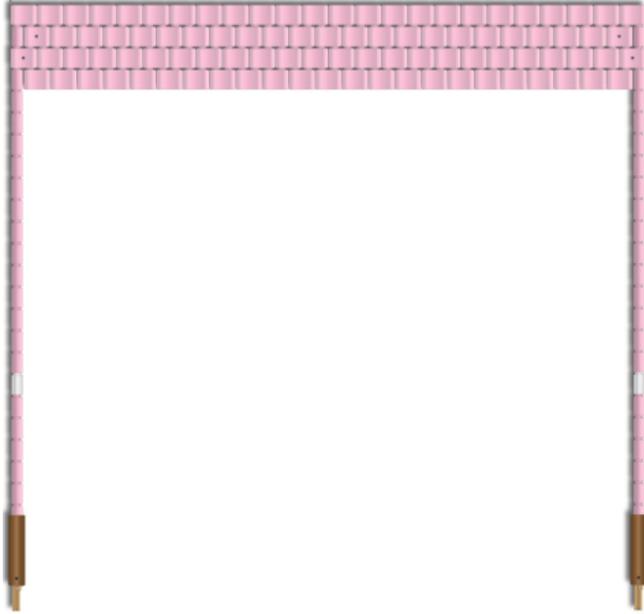
**PRODUCT ID: PWHT TECH – 4022:**

**Ceramic Heating Element 24 beads x 4 beads, 60V, 2.7kW**

Our flexible, ceramic pad heaters are constructed from high quality, European manufactured, sintered aluminium ceramic beads, high grade 19 strand, 80/20 Nickel/Chrome (Ni/Cr) core wire, and 7 strand 212 Nickel cold tail with fitted 60A Twist lock plugs.

**Applications:**

One of the most versatile heater sizes typically used for post weld heat treatment and preheating of a wide range of pipe weld diameters up 1,050°C



| Specification      |   |
|--------------------|---|
| Heater body width  | 24 beads (610mm)  |
| Heater body length | 4 beads (85mm)  |
| Hot tail length    | 300mm   |
| Cold tail length   | 200mm   |
| Voltage            | 60 V  |
| Current            | 45 A  |
| Power              | 2.7 kW  |
| Core Wire          | 19 strand, 80/20 Nickel/Chrome (Ni/Cr)                                  |
| Cold tail wire     | 7 strand 212 Nickel   |
| Bead material      | 95% Sintered Aluminium  |
| Plugs              | 2 x 60 A twist lock plugs as standard (also available with Dinse plugs) |

**Features:**

- Flexible
- Versatile
- Reliable
- Durable
- Competitively priced

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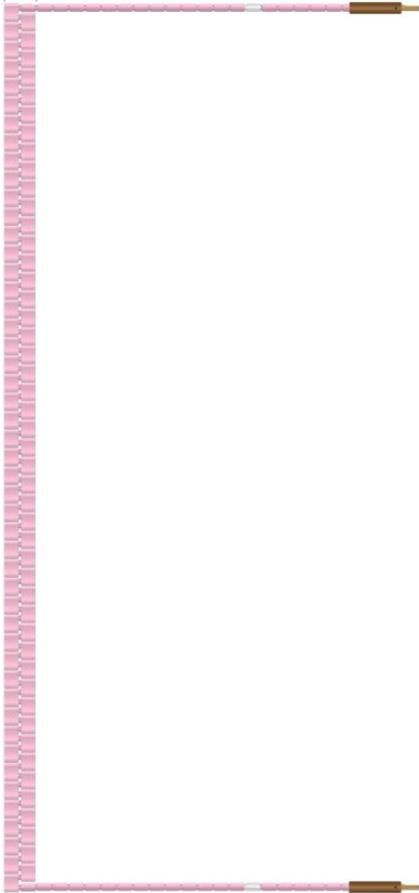
**PRODUCT ID: PWHT TECH – 4023:**

**Ceramic Heating Element 48 beads x 2 beads,  
60V, 2.7kW**

Our flexible, ceramic pad heaters are constructed from high quality, European manufactured, sintered aluminium ceramic beads, high grade 19 strand, 80/20 Nickel/Chrome (Ni/Cr) core wire, and 7 strand 212 Nickel cold tail with fitted 60A twist lock plugs. This 48 bead wide heating element is sometimes called a 'snake' heater.

**Applications:**

Typically used for post weld heat treatment of thinner wall pipe welds and preheating up 1,050°C. They are also ideal for providing support heating on the edge of flanges for pipe to flange welds to compensate for the heat sink effect caused by the flange.



| Specification      |  |
|--------------------|--|
| Heater body width  | 48 beads (1,220mm)   |
| Heater body length | 2 beads (45mm)   |
| Hot tail length    | 300mm  |
| Cold tail length   | 200mm  |
| Voltage            | 60 V   |
| Current            | 45 A   |
| Power              | 2.7 kW   |
| Core Wire          | 19 strand, 80/20<br>Nickel/Chrome (Ni/Cr)                                    |
| Cold tail wire     | 7 strand 212 Nickel  |
| Bead material      | 95% Sintered Aluminium   |
| Plugs              | 2 x 60 A twistlock plugs as<br>standard (also available with<br>Dinse plugs) |

**Features:**

- Flexible
- Versatile
- Reliable
- Durable
- Competitively priced

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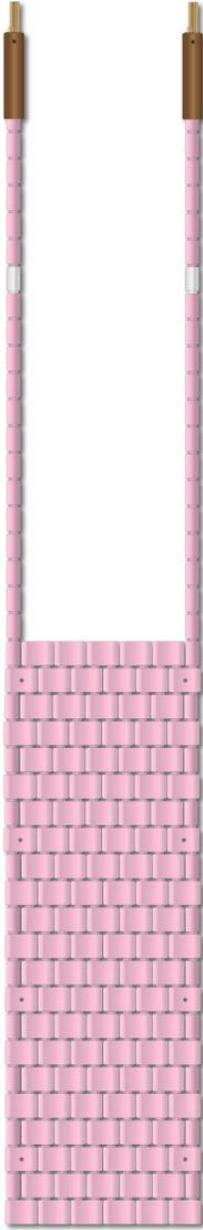
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**PRODUCT ID: PWHT TECH – 4024:**

**Ceramic Heating Element 6 beads x 22 beads, 80V, 3.6kW**

Our flexible, ceramic pad heaters are constructed from high quality, European manufactured, sintered aluminium ceramic beads, high grade 19 strand, 80/20 Nickel/Chrome (Ni/Cr) core wire, and 7 strand 212 Nickel cold tail with fitted 60A Twist lock plugs.

**Applications:**

Typically used for post weld heat treatment of thick wall pipe welds and preheating up 1,050°C

| <b>Specification</b> |  |
|----------------------|--|
| Heater body width    | 6 beads (150mm)  |
| Heater body length   | 22 beads (460mm)   |
| Hot tail length      | 300mm  |
| Cold tail length     | 200mm  |
| Voltage              | 80 V   |
| Current              | 45 A   |
| Power                | 3.6 kW   |
| Core Wire            | 19 strand, 80/20 Nickel/Chrome (Ni/Cr)                                 |
| Cold tail wire       | 7 strand 212 Nickel  |
| Bead material        | 95% Sintered Aluminium   |
| Plugs                | 2 x 60 A twistlock plugs as standard (also available with Dinse plugs) |

**Features:**

- Flexible
- Versatile
- Reliable
- Durable
- Competitively priced

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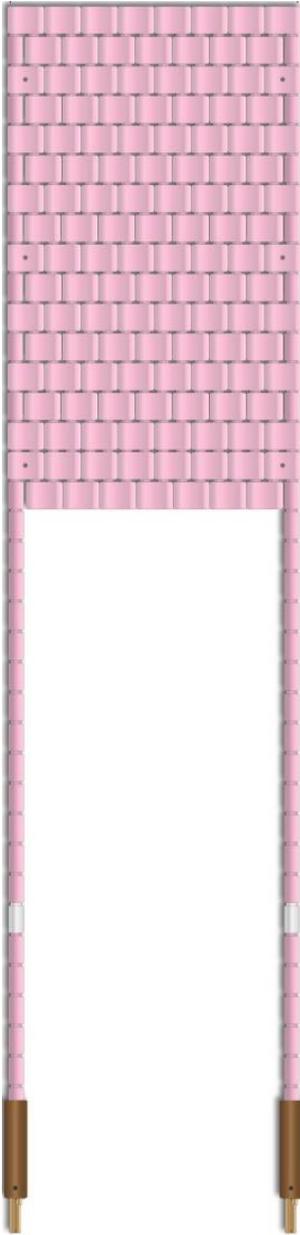
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**PRODUCT ID: PWHT TECH – 4025:**

**Ceramic Heating Element 8 beads x 17 beads, 80V, 3.6kW**

Our flexible, ceramic pad heaters are constructed from high quality, European manufactured, sintered aluminium ceramic beads, high grade 19 strand, 80/20 Nickel/Chrome (Ni/Cr) core wire, and 7 strand 212 Nickel cold tail with fitted 60A twist lock plugs.

**Applications:**

One of the most versatile heater sizes typically used for post weld heat treatment and preheating of a wide range of pipe weld diameters up to 1,050°C

| Specification      |  |
|--------------------|--|
| Heater body width  | 8 beads (200mm)  |
| Heater body length | 17 beads (350mm)   |
| Hot tail length    | 300mm  |
| Cold tail length   | 200mm  |
| Voltage            | 80 V   |
| Current            | 45 A   |
| Power              | 3.6 kW   |
| Core Wire          | 19 strand, 80/20 Nickel/Chrome (Ni/Cr)                                 |
| Cold tail wire     | 7 strand 212 Nickel  |
| Bead material      | 95% Sintered Aluminium   |
| Plugs              | 2 x 60 A twistlock plugs as standard (also available with Dinse plugs) |

**Features:**

- Flexible
- Versatile
- Reliable
- Durable
- Competitively priced

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INDIA PRIVATE LIMITED

**PRODUCT ID: PWHT TECH – 4026:**

**Ceramic Heating Element 10 beads x 14 beads, 80V, 3.6kW**

Our flexible, ceramic pad heaters are constructed from high quality, European manufactured, sintered aluminium ceramic beads, high grade 19 strand, 80/20 Nickel/Chrome (Ni/Cr) core wire, and 7 strand 212 Nickel cold tail with fitted 60A twistlock plugs.

**Applications:**

One of the most versatile heater sizes typically used for post weld heat treatment and preheating of a wide range of pipe weld diameters up to 1,050°C

| Specification      |  |
|--------------------|--|
| Heater body width  | 10 beads (255mm)   |
| Heater body length | 14 beads (290mm)   |
| Hot tail length    | 300mm  |
| Cold tail length   | 200mm  |
| Voltage            | 80 V   |
| Current            | 45 A   |
| Power              | 3.6 kW   |
| Core Wire          | 19 strand, 80/20 Nickel/Chrome (Ni/Cr)                                 |
| Cold tail wire     | 7 strand 212 Nickel  |
| Bead material      | 95% Sintered Aluminium   |
| Plugs              | 2 x 60 A twistlock plugs as standard (also available with Dinse plugs) |

**Features:**

- Flexible
- Versatile
- Reliable
- Durable
- Competitively priced



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# PWHT TECH

INDIA PRIVATE LIMITED

## PRODUCT ID: PWHT TECH – 4027:

**Ceramic Heating Element 12 beads x 11 beads, 80V, 3.6kW**

**Our flexible, ceramic pad heaters are constructed from high quality, European manufactured, sintered aluminium ceramic beads, high grade 19 strand, 80/20**

**Nickel/Chrome (Ni/Cr) core wire, and 7 strand 212 Nickel cold tail with fitted 60A twistlock plugs.**

### Applications:

**One of the most versatile heater sizes typically used for post weld heat treatment and preheating of a wide range of pipe weld diameters up to 1,050°C**

| Specification      |  |
|--------------------|--|
| Heater body width  | 12 beads (305mm)   |
| Heater body length | 11 beads (230mm)   |
| Hot tail length    | 300mm  |
| Cold tail length   | 200mm  |
| Voltage            | 80 V   |
| Current            | 45 A   |
| Power              | 3.6 kW   |
| Core Wire          | 19 strand, 80/20 Nickel/Chrome (Ni/Cr)                                 |
| Cold tail wire     | 7 strand 212 Nickel  |
| Bead material      | 95% Sintered Aluminium   |
| Plugs              | 2 x 60 A twistlock plugs as standard (also available with Dinse plugs) |

### Features:

- Flexible
- Versatile
- Reliable
- Durable
- Competitively priced



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INDIA PRIVATE LIMITED

**PRODUCT ID: PWHT TECH – 4028:**

**Ceramic Heating Element 15 beads x 9 beads,  
80V, 3.6kW**

Our flexible, ceramic pad heaters are constructed from high quality, European manufactured, sintered aluminium ceramic beads, high grade 19 strand, 80/20 Nickel/Chrome (Ni/Cr) core wire, and 7 strand 212 Nickel cold tail with fitted 60A twistlock plugs.

**Applications:**

One of the most versatile heater sizes typically used for post weld heat treatment and preheating of a wide range of pipe weld diameters up to 1,050°C

| Specification      |  |
|--------------------|--|
| Heater body width  | 15 beads (380mm)   |
| Heater body length | 9 beads (185mm)  |
| Hot tail length    | 300mm  |
| Cold tail length   | 200mm  |
| Voltage            | 80 V   |
| Current            | 45 A   |
| Power              | 3.6 kW   |
| Core Wire          | 19 strand, 80/20 Nickel/Chrome (Ni/Cr)                                 |
| Cold tail wire     | 7 strand 212 Nickel  |
| Bead material      | 95% Sintered Aluminium   |
| Plugs              | 2 x 60 A twistlock plugs as standard (also available with Dinse plugs) |

**Features:**

- Flexible
- Versatile
- Reliable
- Durable
- Competitively priced



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INDIA PRIVATE LIMITED

**PRODUCT ID: PWHT TECH – 4029:**

**Ceramic Heating Element 17 beads x 8 beads,  
80V, 3.6kW**

Our flexible, ceramic pad heaters are constructed from high quality, European manufactured, sintered aluminium ceramic beads, high grade 19 strand, 80/20 Nickel/Chrome (Ni/Cr) core wire, and 7 strand 212 Nickel cold tail with fitted 60A twistlock plugs.

**Applications:**

One of the most versatile heater sizes typically used for post weld heat treatment and preheating of a wide range of pipe weld diameters up to 1,050°C

| Specification      |  |
|--------------------|--|
| Heater body width  | 17 beads (430mm)   |
| Heater body length | 8 beads (165mm)  |
| Hot tail length    | 300mm  |
| Cold tail length   | 200mm  |
| Voltage            | 80 V   |
| Current            | 45 A   |
| Power              | 3.6 kW   |
| Core Wire          | 19 strand, 80/20 Nickel/Chrome (Ni/Cr)                                 |
| Cold tail wire     | 7 strand 212 Nickel  |
| Bead material      | 95% Sintered Aluminium   |
| Plugs              | 2 x 60 A twistlock plugs as standard (also available with Dinse plugs) |

**Features:**

- Flexible
- Versatile
- Reliable
- Durable
- Competitively priced



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INDIA PRIVATE LIMITED

**PRODUCT ID: PWHT TECH – 4030:**

**Ceramic Heating Element 21 beads x 7 beads,  
80V, 3.6kW**

Our flexible, ceramic pad heaters are constructed from high quality, European manufactured, sintered aluminium ceramic beads, high grade 19 strand, 80/20 Nickel/Chrome (Ni/Cr) core wire, and 7 strand 212 Nickel cold tail with fitted 60A twistlock plugs.

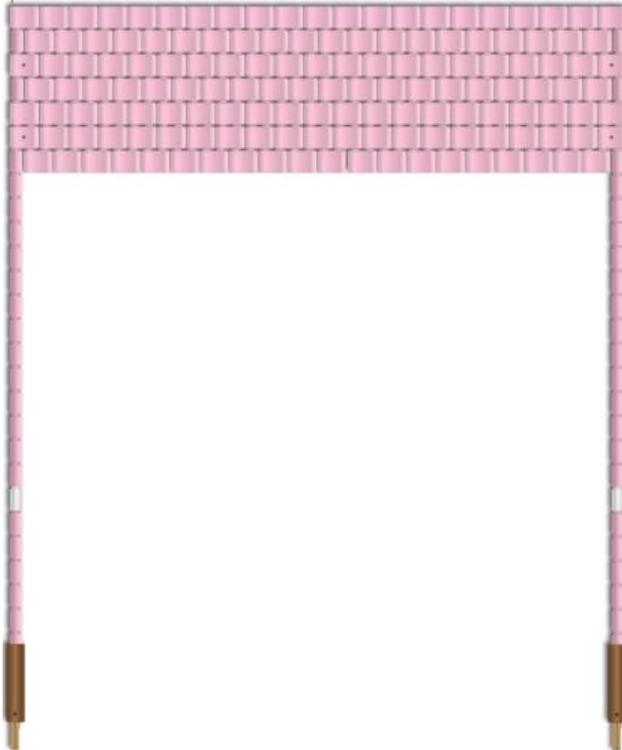
**Applications:**

One of the most versatile heater sizes typically used for post weld heat treatment and preheating of a wide range of pipe weld diameters up to 1,050°C

| Specification      |  |
|--------------------|--|
| Heater body width  | 21 beads (535mm)   |
| Heater body length | 7 beads (145mm)  |
| Hot tail length    | 300mm  |
| Cold tail length   | 200mm  |
| Voltage            | 80 V   |
| Current            | 45 A   |
| Power              | 3.6 kW   |
| Core Wire          | 19 strand, 80/20 Nickel/Chrome (Ni/Cr)                                 |
| Cold tail wire     | 7 strand 212 Nickel  |
| Bead material      | 95% Sintered Aluminium   |
| Plugs              | 2 x 60 A twistlock plugs as standard (also available with Dinse plugs) |

**Features:**

- Flexible
- Versatile
- Reliable
- Durable
- Competitively priced



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**PRODUCT ID: PWHT TECH – 4031:**

**Ceramic Heating Element 33 beads x 4 beads, 80V, 3.6kW**

Our flexible, ceramic pad heaters are constructed from high quality, European manufactured, sintered aluminium ceramic beads, high grade 19 strand, 80/20 Nickel/Chrome (Ni/Cr) core wire, and 7 strand 212 Nickel cold tail with fitted 60A twistlock plugs.

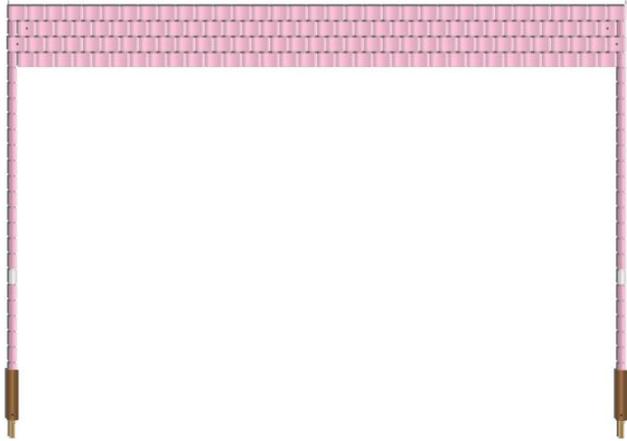
**Applications:**

One of the most versatile heater sizes typically used for post weld heat treatment and preheating of a wide range of pipe weld diameters up to 1,050°C

| Specification      |  |
|--------------------|--|
| Heater body width  | 33 beads (835mm)   |
| Heater body length | 4 beads (85mm)   |
| Hot tail length    | 300mm  |
| Cold tail length   | 200mm  |
| Voltage            | 80 V   |
| Current            | 45 A   |
| Power              | 3.6 kW   |
| Core Wire          | 19 strand, 80/20 Nickel/Chrome (Ni/Cr)                                 |
| Cold tail wire     | 7 strand 212 Nickel  |
| Bead material      | 95% Sintered Aluminium   |
| Plugs              | 2 x 60 A twistlock plugs as standard (also available with Dinse plugs) |

**Features:**

- Flexible
- Versatile
- Reliable
- Durable
- Competitively priced



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❖ *Plug and Sockets:*

| Product Image   | Product Description   |
|---|---|
|    | <b>PRODUCT ID: PWHT TECH – 4032:</b><br><b>60A Male twist lock connector complete set</b><br><b>Application:</b> Replacement 60A, male, twistlock, connector for ceramic heating elements.                                |
|    | <b>PRODUCT ID: PWHT TECH – 4033:</b><br><b>60A Male brass twist lock connector</b><br><b>Application:</b> Replacement 60A, male, twistlock, brass connector for ceramic heating elements.                                 |
|   | <b>PRODUCT ID: PWHT TECH – 4034:</b><br><b>60A Male twistlock connector sleeve</b><br><b>Application:</b> Replacement 60A, male, twistlock, connector sleeve for ceramic heating elements.                                |
|  | <b>PRODUCT ID: PWHT TECH – 4035:</b><br><b>60A Male twistlock connector higher temp sleeve.</b><br><b>Application:</b> Higher temperature replacement 60A, male, twistlock, connector sleeve for ceramic heating elements |
|  | <b>PRODUCT ID: PWHT TECH – 4036:</b><br><b>60A Female twistlock connector complete set</b><br><b>Application:</b> Replacement 60A, female, twistlock, connector for splitter cables.                                      |

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# PWHT TECH

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|   |   |
|---|---|
|    | <p><b>PRODUCT ID: PWHT TECH – 4037:</b><br/><b>60A Female brass twistlock connector</b><br/><b>Application:</b> Replacement 60A, female, twistlock, brass connector for splitter cables.</p>                                  |
|    | <p><b>PRODUCT ID: PWHT TECH – 4038:</b><br/><b>60A Female twistlock connector sleeve</b><br/><b>Application:</b> Replacement 60A, female, twistlock, connector sleeve for splitter cables.</p>                                |
|   | <p><b>PRODUCT ID: PWHT TECH – 4039:</b><br/><b>60A Female twistlock connector higher temp sleeve</b><br/><b>Application:</b> Higher temperature replacement 60A, female, twistlock, connector sleeve for splitter cables.</p> |
|  | <p><b>PRODUCT ID: PWHT TECH – 4040:</b><br/><b>60A pin</b><br/><b>Application:</b> For fixing 60A male and female connector sleeves to 60A brass connectors.</p>  |
|  | <p><b>PRODUCT ID: PWHT TECH – 4041:</b><br/><b>300A Male twistlock connector complete set</b><br/><b>Application:</b> Replacement 300A, male, twistlock, connector for splitters and cable sets.</p>                          |
|  | <p><b>PRODUCT ID: PWHT TECH – 4042:</b><br/><b>300A Male brass twistlock connector</b><br/><b>Application:</b> Replacement 300A, male, twistlock, brass connector for splitters and cable sets.</p>                           |

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|   |   |
|---|---|
|    | <p><b>PRODUCT ID: PWHT TECH – 4043:</b><br/><b>300A Male twistlock connector sleeve.</b><br/><b>Application:</b> Replacement 300A, male, twistlock, connector sleeve for splitters and cable sets.</p>                                |
|    | <p><b>PRODUCT ID: PWHT TECH – 4044:</b><br/><b>300A Male twistlock connector higher temp sleeve.</b><br/><b>Application:</b> Higher temperature replacement 300A, male, twistlock, connector sleeve for splitters and cable sets.</p> |
|   | <p><b>PRODUCT ID: PWHT TECH – 4045:</b><br/><b>300A Female twistlock connector complete set.</b><br/><b>Application:</b> Replacement 300A, female, twistlock, connector for cable sets.</p>   |
|  | <p><b>PRODUCT ID: PWHT TECH – 4046:</b><br/><b>300A Female brass twistlock connector</b><br/><b>Application:</b> Replacement 300A, female, twistlock, brass connector for cable sets.</p>   |
|  | <p><b>PRODUCT ID: PWHT TECH – 4047:</b><br/><b>300A Female twistlock connector sleeve.</b><br/><b>Application:</b> Replacement 300A, female, twistlock, connector sleeve for cable sets.</p>  |

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# PWHT TECH

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|   |   |
|---|---|
|    | <p><b>PRODUCT ID: PWHT TECH – 4048:</b><br/><b>300A Female twistlock connector higher temp sleeve.</b><br/><b>Application:</b> Higher temperature replacement 300A, female, twistlock, connector sleeve for cable sets.</p> |
|    | <p><b>PRODUCT ID: PWHT TECH – 4049:</b><br/><b>300A pin</b><br/><b>Application:</b> For fixing 300A male and female connector sleeves to 300A brass connectors.</p>   |
|   | <p><b>PRODUCT ID: PWHT TECH – 4050:</b><br/><b>60A Male panel mounted twistlock connector</b><br/><b>Application:</b> Used to connect 60V supply to units where in-line connectors are not suitable heating elements.</p>   |
|  | <p><b>PRODUCT ID: PWHT TECH – 4051:</b><br/><b>60A Female panel mounted twistlock connector</b><br/><b>Application:</b> Used in 60V output heat treatment units where output is equal to or less than 60A.</p>              |
|  | <p><b>PRODUCT ID: PWHT TECH – 4052:</b><br/><b>300A Male panel mounted twistlock connector</b><br/><b>Application:</b> Used to connect 60V supply to units where in-line connectors are not suitable</p>                    |

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# PWHT TECH

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|   |   |
|---|---|
|    | <p><b>PRODUCT ID: PWHT TECH – 4053:</b><br/><b>300A Female panel mounted twistlock connector</b><br/><b>Application:</b> Replacement twistlock socket for 60V output heat treatment units where output is greater than 60A up to 300A</p> |
|    | <p><b>PRODUCT ID: PWHT TECH – 4054:</b><br/><b>Panel mounted thermocouple socket type K in yellow</b><br/><b>Application:</b> Replacement socket for use in heat treatment units, recorders and programmers</p>                           |
|   | <p><b>PRODUCT ID: PWHT TECH – 4055:</b><br/><b>Panel mounted thermocouple socket type K in green</b><br/><b>Application:</b> Replacement socket for use in heat treatment units, recorders and programmers</p>                            |
|  | <p><b>PRODUCT ID: PWHT TECH – 4056:</b><br/><b>Thermocouple plug type K in yellow with hollow pins</b><br/><b>Application:</b> For connecting to type K thermocouple wire and as a replacement plug for compensating cables and links</p> |
|  | <p><b>PRODUCT ID: PWHT TECH – 4057:</b><br/><b>Thermocouple socket type K in yellow for use with hollow pin plugs</b><br/><b>Application:</b> Replacement plug for compensating cables</p>  |

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# PWHT TECH

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|   |  |
|---|--|
|    | <p><b>PRODUCT ID: PWHT TECH – 4058:</b><br/><b>Thermocouple plug type K in green with solid pins</b><br/><b>Application:</b> Solid pin plug for connecting to type K thermocouple wire and as a replacement plug for compensating cables and links</p>               |
|    | <p><b>PRODUCT ID: PWHT TECH – 4059:</b><br/><b>Thermocouple socket type K in green for use with solid pin plugs</b><br/><b>Application:</b> Replacement plug for compensating cables</p>   |
|    | <p><b>PRODUCT ID: PWHT TECH – 40601:</b><br/><b>Thermocouple plug type K in yellow with solid pins</b><br/><b>Application:</b> Solid pin plug for connecting to type K thermocouple wire and as a replacement plug for compensating cables and links</p>             |
|  | <p><b>PRODUCT ID: PWHT TECH – 4061:</b><br/><b>Thermocouple inline socket type K in yellow for use with solid pin plugs</b><br/><b>Application:</b> Replacement socket for compensating cables</p>   |
|  | <p><b>PRODUCT ID: PWHT TECH – 4062:</b><br/><b>Thermocouple plug type K 'quick wire' in yellow with solid pins</b><br/><b>Application:</b> For quick and easy connection to type K thermocouple wire and as a replacement plug for compensating cables and links</p> |
|  | <p><b>PRODUCT ID: PWHT TECH – 4063:</b><br/><b>Thermocouple socket type K 'quick wire' in yellow for use with solid pin plugs</b><br/><b>Application:</b> Quick and easy to connect, replacement plug for compensating cables</p>                                    |

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# PWHT TECH

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|  |   |
|--|---|
|   | <p><b>PRODUCT ID: PWHT TECH – 4064:</b><br/><b>Thermocouple plug type K ‘quick wire’ in green with solid pins</b><br/><b>Application:</b> For quick and easy connection to type K thermocouple wire and as a replacement plug for compensating cables and links</p> |
|   | <p><b>PRODUCT ID: PWHT TECH – 4065:</b><br/><b>Thermocouple socket type K ‘quick wire’ in green for use with solid pin plugs</b><br/><b>Application:</b> Quick and easy to connect, replacement plug for compensating cables</p>                                    |
|   | <p><b>PRODUCT ID: PWHT TECH – 4066:</b><br/><b>Miniature thermocouple plug type K in green</b><br/><b>Application:</b> For use with Microcal calibration unit (GHT 2200) and Digital Infrared Thermometer (GHT 9319)</p>  |
|  | <p><b>PRODUCT ID: PWHT TECH – 4067:</b><br/><b>Miniature thermocouple plug type K in yellow</b><br/><b>Application:</b> For use with Microcal Calibration unit (GHT 2200) and Digital Infrared Thermometer (GHT 9319)</p>   |

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# PWHT TECH

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❖ *Ceramic beads spares:*

| Product Image   | Product Description   |
|---|---|
|    | <b>PRODUCT ID: PWHT TECH – 4068:</b><br><b>Main Body Bead : CB001</b><br>Main Body Bead in Pink                     |
|    | <b>PRODUCT ID: PWHT TECH – 4069:</b><br><b>Main Body Bead with Hole : CB002</b><br>Main Body Bead with Hole in Pink |
|    | <b>PRODUCT ID: PWHT TECH – 4070:</b><br><b>Male End Bead : CB003</b><br>Male End Bead in Pink                       |
|  | <b>PRODUCT ID: PWHT TECH – 4071:</b><br><b>Female End Bead : CB004</b><br>Female End Bead in Pink                   |
|  | <b>PRODUCT ID: PWHT TECH – 4072:</b><br><b>Tail Bead : CB005</b><br>Tail Bead in Pink                               |
|  | <b>PRODUCT ID: PWHT TECH – 4073:</b><br><b>Tail Bead in White : CB005W</b><br>Tail Bead in White                    |

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❖ *Wires & cables:*

| Product Image  | Product Description  |               |  |                    |                            |              |   |            |                  |                 |           |                     |      |                              |   |                                 |  |                               |                                      |               |        |   |       |                                  |                           |                                    |                          |
|--|--|---------------|--|--------------------|----------------------------|--------------|---|------------|------------------|-----------------|-----------|---------------------|------|------------------------------|---|---------------------------------|--|-------------------------------|--------------------------------------|---------------|--------|---|-------|----------------------------------|---------------------------|------------------------------------|--------------------------|
|  | <p><b>PRODUCT ID: PWHT TECH – 4074:</b><br/> <b>Nickel Chrome (NiCr) 80/20, 19 Strand Heater Core Wire, 500m roll</b><br/>                     Heater core wire for the repair and manufacture of ceramic pad heating elements.</p> <p><b>Applications</b><br/>                     For heat treatment applications where the ceramic pad heating elements are required to operate at temperatures up to 800°C.</p> <table border="1" data-bbox="743 867 1588 1654"> <thead> <tr> <th colspan="2">Specification</th> </tr> </thead> <tbody> <tr> <td>Core wire material</td> <td>80/20 Nickel Chrome (NiCr)</td> </tr> <tr> <td>Construction</td> <td>19 Strand wire made up of 18 x 0.523mm diameter strands around 1 x 0.57mm king wire</td> </tr> <tr> <td>Resistance</td> <td>0.28 Ω per m ±5%</td> </tr> <tr> <td>Unit of measure</td> <td>500m roll</td> </tr> <tr> <td>Weight of 500m roll</td> <td>21kg</td> </tr> <tr> <td>Nominal chemical composition</td> <td>Ni:77.95%, Cr:19.20%, Si:1.50%, Fe:1.00</td> </tr> <tr> <td>Specific heat capacity at 800°C</td> <td>0.63 kJ kg<sup>-1</sup> K<sup>-1</sup></td> </tr> <tr> <td>Thermal conductivity at 800°C</td> <td>24 W m<sup>-1</sup> K<sup>-1</sup></td> </tr> <tr> <td>Melting point</td> <td>1400°C</td> </tr> <tr> <td>Recommend maximum operating temperature</td> <td>800°C</td> </tr> <tr> <td>Electrical resistivity at 20°C Ω</td> <td>1.09 Ω mm<sup>2</sup>/m</td> </tr> <tr> <td>Thermal Expansion at 20°C to 750°C</td> <td>16 x 10<sup>-16</sup>K</td> </tr> </tbody> </table> | Specification |  | Core wire material | 80/20 Nickel Chrome (NiCr) | Construction | 19 Strand wire made up of 18 x 0.523mm diameter strands around 1 x 0.57mm king wire | Resistance | 0.28 Ω per m ±5% | Unit of measure | 500m roll | Weight of 500m roll | 21kg | Nominal chemical composition | Ni:77.95%, Cr:19.20%, Si:1.50%, Fe:1.00 | Specific heat capacity at 800°C | 0.63 kJ kg <sup>-1</sup> K <sup>-1</sup> | Thermal conductivity at 800°C | 24 W m <sup>-1</sup> K <sup>-1</sup> | Melting point | 1400°C | Recommend maximum operating temperature | 800°C | Electrical resistivity at 20°C Ω | 1.09 Ω mm <sup>2</sup> /m | Thermal Expansion at 20°C to 750°C | 16 x 10 <sup>-16</sup> K |
| Specification  |  |               |  |                    |                            |              |   |            |                  |                 |           |                     |      |                              |   |                                 |  |                               |                                      |               |        |   |       |                                  |                           |                                    |                          |
| Core wire material   | 80/20 Nickel Chrome (NiCr)   |               |  |                    |                            |              |   |            |                  |                 |           |                     |      |                              |   |                                 |  |                               |                                      |               |        |   |       |                                  |                           |                                    |                          |
| Construction   | 19 Strand wire made up of 18 x 0.523mm diameter strands around 1 x 0.57mm king wire  |               |  |                    |                            |              |   |            |                  |                 |           |                     |      |                              |   |                                 |  |                               |                                      |               |        |   |       |                                  |                           |                                    |                          |
| Resistance   | 0.28 Ω per m ±5%   |               |  |                    |                            |              |   |            |                  |                 |           |                     |      |                              |   |                                 |  |                               |                                      |               |        |   |       |                                  |                           |                                    |                          |
| Unit of measure  | 500m roll  |               |  |                    |                            |              |   |            |                  |                 |           |                     |      |                              |   |                                 |  |                               |                                      |               |        |   |       |                                  |                           |                                    |                          |
| Weight of 500m roll  | 21kg   |               |  |                    |                            |              |   |            |                  |                 |           |                     |      |                              |   |                                 |  |                               |                                      |               |        |   |       |                                  |                           |                                    |                          |
| Nominal chemical composition   | Ni:77.95%, Cr:19.20%, Si:1.50%, Fe:1.00  |               |  |                    |                            |              |   |            |                  |                 |           |                     |      |                              |   |                                 |  |                               |                                      |               |        |   |       |                                  |                           |                                    |                          |
| Specific heat capacity at 800°C  | 0.63 kJ kg <sup>-1</sup> K <sup>-1</sup>   |               |  |                    |                            |              |   |            |                  |                 |           |                     |      |                              |   |                                 |  |                               |                                      |               |        |   |       |                                  |                           |                                    |                          |
| Thermal conductivity at 800°C  | 24 W m <sup>-1</sup> K <sup>-1</sup>   |               |  |                    |                            |              |   |            |                  |                 |           |                     |      |                              |   |                                 |  |                               |                                      |               |        |   |       |                                  |                           |                                    |                          |
| Melting point  | 1400°C   |               |  |                    |                            |              |   |            |                  |                 |           |                     |      |                              |   |                                 |  |                               |                                      |               |        |   |       |                                  |                           |                                    |                          |
| Recommend maximum operating temperature  | 800°C  |               |  |                    |                            |              |   |            |                  |                 |           |                     |      |                              |   |                                 |  |                               |                                      |               |        |   |       |                                  |                           |                                    |                          |
| Electrical resistivity at 20°C Ω   | 1.09 Ω mm <sup>2</sup> /m  |               |  |                    |                            |              |   |            |                  |                 |           |                     |      |                              |   |                                 |  |                               |                                      |               |        |   |       |                                  |                           |                                    |                          |
| Thermal Expansion at 20°C to 750°C   | 16 x 10 <sup>-16</sup> K   |               |  |                    |                            |              |   |            |                  |                 |           |                     |      |                              |   |                                 |  |                               |                                      |               |        |   |       |                                  |                           |                                    |                          |

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**PRODUCT ID: PWHT TECH – 4075:**

**Nickel Chrome (NiCr) 80/20, 37 Strand  
Heater Core Wire, 500m roll**

Heater core wire for the repair and manufacture of ceramic pad heating elements.

**Applications:**

For heat treatment applications where the ceramic pad heating elements are required to operate at temperatures up to 1050°C.

| Specification                           |   |
|---|---|
| Core wire material                      | 80/20 Nickel Chrome (NiCr)  |
| Construction                            | 37 Strand wire made up of 36 x 0.381 mm diameter strands over 1 x 0.508 king wire |
| Resistance                              | 0.248 to 0.302 $\Omega$ per m   |
| Unit of measure                         | 500m roll   |
| Weight of 500m roll                     | 21kg  |
| Nominal chemical composition            | Ni:80, Cr:20%   |
| Thermal conductivity at 800°C           | 15 W m <sup>-1</sup> K <sup>-1</sup>  |
| Melting point                           | 1400°C  |
| Recommend maximum operating temperature | 1050°C  |
| Electrical resistivity at 20°C $\Omega$ | 108 $\Omega$ /cm  |
| Thermal Expansion at 20°C to 750°C      | 17.5 x 10 <sup>-16</sup> K  |

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**PRODUCT ID: PWHT TECH – 4076:**

**Nickel Chrome (NiCr) 60/16, 19 Strand Heater Core Wire, 500m roll**

Heater core wire for the repair and manufacture of ceramic pad heating elements.

**Applications**

For heat treatment applications where the ceramic pad heating elements are required to operate at temperatures up to 1050°C. The higher coefficient of resistance rates it suitable only for less exacting applications than 80/20 NiCr heater core wire.



| Specification                           |   |
|---|---|
| Core wire material                      | 80/20 Nickel Chrome (NiCr)  |
| Construction                            | 19 Strand wire made up of 18 x 0.523mm diameter strands around 1 x 0.57mm king wire |
| Resistance                              | 0.276 to 0.304 $\Omega$ per m   |
| Unit of measure                         | 500m roll   |
| Weight of 500m roll                     | 19kg  |
| Nominal chemical composition            | Ni:60%, Cr:18%: Si:1.7%; Mn:1%: C:0.1   |
| Specific heat capacity at 800°C         | 0.63 kJ kg <sup>-1</sup> K <sup>-1</sup>  |
| Thermal conductivity at 50°C            | 24 W m <sup>-1</sup> K <sup>-1</sup>  |
| Melting point                           | 1390°C  |
| Recommend maximum operating temperature | 1050°C  |
| Electrical resistivity at 20°C $\Omega$ | 1.11 $\Omega$ mm <sup>2</sup> /m  |
| Thermal Expansion at 20°C to 750°C      | 16 x 10 <sup>-6</sup> K   |

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**PRODUCT ID: PWHT TECH – 4077:**

**Nickel 212, 7 Strand, Cold Tail Wire, 100m roll**  
Heater core wire for the repair and manufacture of ceramic pad heating elements.

**Applications**

Heat treatment applications for ceramic pad heating element cold tails.

| <b>Specification</b>         |   |
|------------------------------|---|
| Cold tail wire material      | Nickel  |
| Construction                 | 7 Strand wire made up of 7 x 0.914mm diameter strands |
| Maximum strand resistance    | 0.176 $\Omega$ per m                                  |
| Unit of measure              | 100m roll   |
| Weight of 500m roll          | 5.9kg   |
| Nominal chemical composition | Ni:98%, Mn:2%:  |
| Melting point                | 1435°C  |



**PRODUCT ID: PWHT TECH – 4078:**

**Nickel 212, 7 Strand, Cold Tail Wire, 500m roll**  
Heater core wire for the repair and manufacture of ceramic pad heating elements.

**Applications**

Heat treatment applications for ceramic pad heating element cold tails.

| <b>Specification</b>         |   |
|------------------------------|---|
| Cold tail wire material      | Nickel  |
| Construction                 | 7 Strand wire made up of 7 x 0.914mm diameter strands |
| Maximum strand resistance    | 0.176 $\Omega$ per m                                  |
| Unit of measure              | 500m roll   |
| Weight of 500m roll          | 23kg  |
| Nominal chemical composition | Ni:98%, Mn:2%:  |
| Melting point                | 1435°C  |

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**PRODUCT ID: PWHT TECH – 4079:**

**Nickel 212, 19 Strand, Cold Tail Wire, 100m roll**  
Heater core wire for the repair and manufacture of ceramic pad heating elements.

**Applications**

Heat treatment applications for ceramic pad heating element cold tails.

| Specification                |  |
|------------------------------|--|
| Cold tail wire material      | Nickel   |
| Construction                 | 19 Strand wire made up of 19 x 0.61mm diameter strands |
| Maximum strand resistance    | 0.0208 $\Omega$ per m                                  |
| Unit of measure              | 100m roll  |
| Weight of 500m roll          | 4.85kg   |
| Nominal chemical composition | Ni:98%, Mn:2%:   |
| Melting point                | 1435°C   |



**PRODUCT ID: PWHT TECH – 4080:**

**Nickel 212, 19 Strand, Cold Tail Wire, 500m roll**  
Heater core wire for the repair and manufacture of ceramic pad heating elements.

**Applications**

Heat treatment applications for ceramic pad heating element cold tails.

| Specification                |  |
|------------------------------|--|
| Cold tail wire material      | Nickel   |
| Construction                 | 19 Strand wire made up of 19 x 0.61mm diameter strands |
| Maximum strand resistance    | 0.0208 $\Omega$ per m                                  |
| Unit of measure              | 500m roll  |
| Weight of 500m roll          | 27kg   |
| Nominal chemical composition | Ni:98%, Mn:2%:   |
| Melting point                | 1435°C   |

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Service : +91 9043060755

**Web:**

support@pwhttech.com  
www.pwhttech.com

**PRODUCT ID: PWHT TECH – 4081:**

**Thermocouple wire type K, 0.711 mm, standard density glass insulation, red and yellow on 100m roll**

PWHT TECH type K thermocouple wire, when heated, utilises the Seebeck effect to produce a variable mV difference between the two dissimilar conductors (Nickel/Chrome and Nickel/Aluminium). This mV difference can then be used by temperature control and recording equipment to accurately control and record the temperature of the work piece being heat treated.

**Applications**

To obtain the most accurate temperature reading the thermocouple wire should be directly attached to the work piece being heat treated using one of Globe's thermocouple attachment units such as the GHT 4100



| Specification                                |  |
|--|--|
| Single strand wire diameter (each conductor) | 0.711 mm   |
| Thermocouple Type                            | K  |
| Conductor material                           | Positive conductor - Nickel/Chrome : Negative conductor- Nickel/Aluminium      |
| Insulation                                   | Glass fibre, braided and varnished, red and yellow                             |
| Insulation temperature rating                | 700°C  |
| Construction                                 | Twisted pair   |
| Applicable standards                         | BS 4937 BSEN 60584.2 relevant sections. All comparable international standards |
| Weight                                       | 1.5 kg   |
| Length                                       | 100m roll  |

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**PRODUCT ID: PWHT TECH – 4082:**

**Thermocouple wire type K, 0.711 mm, high density glass insulation, red and yellow on 100m roll**

PWHT TECH type K thermocouple wire, when heated, utilises the Seebeck effect to produce a variable mV difference between the two dissimilar conductors (Nickel/Chrome and Nickel/Aluminium). This mV difference can then be used by temperature control and recording equipment to accurately control and record the temperature of the work piece being heat treated.

**Applications**

To obtain the most accurate temperature reading the thermocouple wire should be directly attached to the workpiece being heat treated using one of Globe’s thermocouple attachment units such as the GHT 4100. (IEC standard green and white coloured insulation is preferred in some European countries)



| Specification                                |   |
|--|---|
| Single strand wire diameter (each conductor) | 0.711 mm  |
| Thermocouple Type                            | K   |
| Conductor material                           | Positive conductor Nickel/Chrome :<br>Negative conductor- Nickel/Aluminium  |
| Insulation                                   | Glass fibre, braided and varnished, green and white (IEC)   |
| Insulation temperature rating                | 700°C (Note: Dependent upon environmental conditions, the short term temperature rating for the insulation is 750°C where there is no risk of abrasion of the insulation during the heat treatment process. |
| Construction                                 | Twisted pair  |
| Applicable standards                         | BS 4937 BSEN 60584.2 relevant sections. All comparable international standards  |
| Weight                                       | 1.5 kg  |
| Length                                       | 100m roll   |

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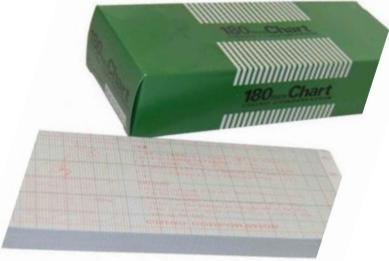
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❖ *Chart Paper:*

| Product Image   | Product Description  |
|---|--|
|  | <p><b>PRODUCT ID: PWHT TECH – 4083:</b></p> <p><b>Chino Linear Fan-fold Chart Paper (EH05035) 0-1200C Original</b><br/>Replacement chart for use with linear scale, EH3127-100 Chino temperature chart recorders. Sold individually.</p> |

❖ *Ribbon Set:*

| Product Image   | Product Description   |
|---|---|
|  | <p><b>PRODUCT ID: PWHT TECH – 4084:</b></p> <p><b>Chino Recorder Ink Pad Wheel (Inked)</b><br/>Replacement ink pad wheel for use with Chino EH series temperature chart recorders</p> |

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❖ *Thermocouple Wire:*



| Specifications                |  |
|-------------------------------|--|
| Diameter                      | 0.711mm  |
| Thermocouple Type             | K  |
| Conductor Material            | Positive leg – Nickel/Chrome Negative leg – Nickel Aluminium |
| Insulation                    | Glass fibre, braided and varnished, red and yellow           |
| Insulation temperature rating | 800°C  |
| Construction                  | Twisted Pair   |
| Applicable standards          | ASTM 230   |
| Weight                        | 1.28 Kg  |
| Length                        | 100m roll  |

**Health and Safety Information:**

- ✓ No personal protective equipment required when used under normal operating conditions.
- ✓ Product represents no health risk when used under normal operating conditions
- ✓ In case of smoke inhalation during combustion remove casualty to fresh air and seek medical attention.
- ✓ In case of ingestion seek medical attention
- ✓ Good industrial hygiene practices should be followed.
- ✓ If skin irritation occurs area should be flushed with cold water
- ✓ If glass dust is produced due to rough handling it should be washed off immediately. In case of contact with eyes flush well with plentiful amounts of clean water and seek medical attention.

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# PWHT TECH

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## ❖ *Compensating cable:*

| Product Image   | Product Description  |
|---|--|
|  | <p><b>PRODUCT ID: PWHT TECH – 4086:</b></p> <p><b>Product Description: Compensating cable 13-0.2mm PVC in red</b></p> <p><b>Applications:</b><br/>For use with type K thermocouples. Used to repair triple cable sets. When fitted with a thermocouple plug and socket the compensating cable can also be made into a separate compensating cable to connect additional thermocouples to a temperature recorder.</p> |

| Specification                            |   |
|--|---|
| Type                                     | KCB   |
| Construction of conductors               | Thirteen strands of 0.2mm OD thermocouple alloys.             |
| Positive conductor material              | Copper with white insulation                                  |
| Negative conductor material              | Constantin with blue insulation                               |
| Insulation of conductors                 | PVC extruded with high temp PVC (white / blue)                |
| General construction                     | Insulated pair laid flat with overall outer sheath insulation |
| Outer sheath insulation                  | High temp. PVC extruded overall (Red)                         |
| Insulation maximum operating temperature | 105°C   |
| Standards                                | BS 4937, BS 6746 and relevant parts, of BSEN 60584.2          |

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## PRODUCT ID: PWHT TECH – 4087:

### ❖ *Ceramic Insulation:*

- Ceramic Insulation is used to wrap joints after insulating coils to maintain or keep heat inside the job.



- Ceramic Fibre Blanket is used as a general insulation material and is the main component used to make insulation blankets. Made of long fibres, it is flexible and easy to cut, shape and install. With a maximum working temperature of 1260°C, this material can be supplied in any length required, up to 7200mm which is one roll.

|                             |  |
|-----------------------------|--|
| Dimensions of Roll          | 470 H x 600 W x 470 D mm                     |
| Dimensions of Blanket       | 7200 L x 600 W x 25 D mm                     |
| Weight of Roll              | 15kg   |
| Density                     | 128kg/m <sup>3</sup> (8lbs/ft <sup>3</sup> ) |
| Maximum Working Temperature | 1260°C                                       |

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INDIA PRIVATE LIMITED

**Manufactured and Designed By  
PWHT TECH INDIA PRIVATE LIMITED, INDIA**

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