



**Thermafield**

Power Components Pvt. Ltd.

# GENUINE & RELIABLE INDUCTION FURNACES & SPARES



*Value Added Products & Services Every Time*



## Thermafield

Power Components Pvt. Ltd.

### ABOUT US

#### Thermafield Power Components Pvt. Ltd.

Is professionally managed by former Inductotherm design engineers who have also worked with Electrotherm, ABB, Ajax-Tocco, and several other induction melting system providers. Thermafield has been in business since 2009 and has served over 1200 companies in countries all over the world.

We at Thermafield, offer a wide range of induction melting system spares such as induction furnace coils, selector switches, control boards, SCRs, SCR control modules, hydraulics parts, pneumatics, insulation material, rolling mills, cast tops/bottoms, water-cooled power cables to complete turn-key systems.

The Thermafield corporate and manufacturing facility is located in our 21,000 sq-ft facility in India. Our facility contains all manufacturing and testing departments and is designed to meet the stringent quality standards of all of our valued customers.

We are known for our precise design, durability and cost effectiveness compared to OEM, while maintaining OEM standards. We ship our OEM equivalent (Inductotherm, Ajax, Electrotherm, etc.) parts all over the world at a far lower price than OEM pricing, while maintaining OEM specifications.

**Jagdish M. Patel - CEO:** Thermafield Power Components Pvt Ltd. B.E. Power Electronics. Worked with Inductotherm India Pvt Ltd as Electrical Power Supply Design Engineer - Engineering Department (2003-2011).

**Edwin Lopez - Director Sales & Marketing (USA):** Electronics Engineer having 10 years working experience on Induction Melting & Heating Technology in Servicing & Installation. Former Inductotherm Field Service Engineer.

# ISO 9001 CERTIFICATE



## Certificate of Registration

*This is to certify that the  
Quality Management System of*

### THERMA FIELD POWER COMPONENTS PRIVATE LIMITED

OPP, UNISON PHARMA, STEEL TOWN, BLOCK NO B/9, PLOT NO 21/22, CHANGODAR  
VILLAGE, MORAIYA, SANAND, AHMEDABAD- 382213, GUJARAT.

Has been independently assessed by BIC Ltd and  
meet the following standard details below:

## ISO 9001:2015

For the following scope of certification

**"MANUFACTURER AND EXPORTER OF INDUCTION FURNACE AND SPARES"**

**Certificate No: - QMS02/BIC20/5036F**

Date of Initial Registration : 19-02-2020

Issue Date : 19-02-2020

1<sup>st</sup> surveillance Audit Due : 18-01-2021

Expiry Date : 18-02-2023

2<sup>nd</sup> surveillance Audit Due : 18-01-2022

To check the validity of this certificate please visit [www.biccert.co.uk](http://www.biccert.co.uk)



Authorised signatory

Validity of the Certificate is Subject to Successful Completion of Annual Surveillance Audits. This Certificate Remains the Property of Bureau of International Certification Ltd. (UK) and must be Returned on Request (in Case of Surveillance Audit is not Allowed to be Conducted, This Certificate Shall Be Suspended / Withdrawn) Bureau of International Certification Ltd is Accredited by Global Independent Accreditation Services Ltd.([www.gias.org.uk](http://www.gias.org.uk))  
UK office Address:- B1 Business Centre, Suite 206, Davyfield Road Blackburn, Lancashire England, Bb1 2qy  
Email Id- [Info.biccert@gmail.com](mailto:Info.biccert@gmail.com), [Info@biccert.co.uk](mailto:Info@biccert.co.uk), [www.biccert.co.uk](http://www.biccert.co.uk)



# Induction Melting Furnace Coil

Our induction coils are made from 99% ETH grade copper hollow (square or round) tube. Our energy efficient design allows maximum current draw per Kilowatt.

We offer a wide range of comparable OEM coils such as Inductotherm, Ajax-Tocco, Electrotherm, etc. ranging from 50KW thru 7500KW.

Our design engineers match our induction coils to your existing power supply unit per your provided diagrams and schematics.

We also offer a full line of furnace replacement spare parts such as copper wound tubing, coil supports, coil connections, brass CSK nuts/bolts to complete ready to line furnaces.

**We specially design induction coils for various kilowatt rating to provide energy efficiency and cost savings.**

## How to reduce power consumption

By Increasing Coil Diameter Saves Power Consumption.

Example: **7ton /2500KW.**

Existing Coil Diameter – 46 inches.

Daily KWH Consumed – 55510 units (Total12 heats/day)

Taken average heat size – 7200Kg

Total Production Achieved / day – 7200 X12 = 86400Kg

Unit consumed / ton –  $\frac{55510 \text{ KWH} \times 1000}{86400 \text{ Kg}} = 642.47$

Lets round up to 643 units/ton

## By increased Coil diameter with New Design to 48 inches.

We achieve average heat size – of 8072Kg, Say – 8050Kg.

Heats achieved daily – 11

Average Production achieved / day: 8050 X 11 = 88550Kg.

So, saved power/per ton = 643 – 627 = 16 units / ton.



**25 TON MELTING COIL**

# Melting Induction Power Supply & Furnace



## SOLID STATE POWER SUPPLY

We design and manufacture Solid State Power supply units for melting/heating applications for foundry & steel plants. We can provide the following power ratings .

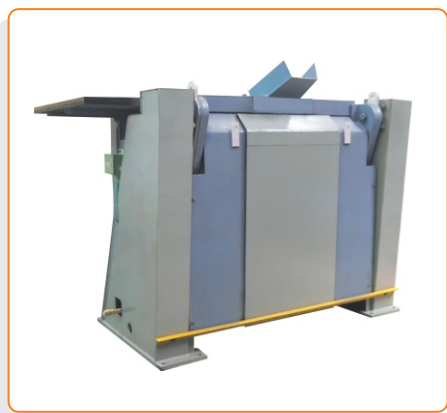
Single Track & Dual Track TYPE:

75kw, 125kw, 175kw, 200kw, 250kw, 350kw, 450kw, 550kw, 750kw, 1000kw, 1250kw, 1500kw, 2000kw, 3000kw, 4000kw, 6000kw, Single Track & Dual Track type.

## CORELESS INDUCTION MELTING FURNACE

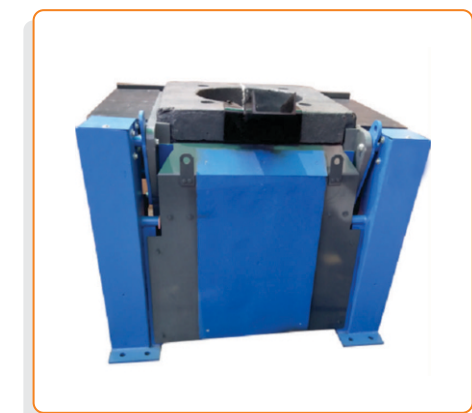
We manufacture all kinds of Duraline Coreless induction melting furnaces as well as Steel frame furnaces to match your existing inverter power supply or any customized requirements.

50kg, 100kg, 150kg, 250kg, 300kg, 500kg, 750kg, 1000kg, 1500kg, 2000kg, 3000kg, 4/5 ton, 6 ton, 7 ton, 8 ton, 10 ton, 15 ton, 20 ton



## COMPLETE FURNACE ASSEMBLY MATCHING WITH ANY KW POWER SUPPLY UNIT

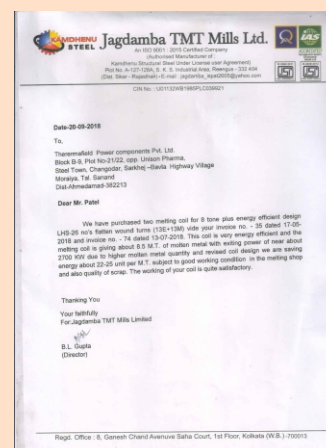
Since our inception in 2009, we have successfully been engaged in manufacturing, exporting and supplying a wide range of high quality induction melting furnace assemblies. We have supplied such assemblies in modern foundries, steel shops and rolling mills all over the world, matching any KW power supply of Inductotherm, Electrotherm, or Ajax-Tocco type. Assemblies are manufactured by utilizing high grade components and latest techniques under expert' guidance at our premises. In addition, upgrades and modifications of your existing design can be made upon your request providing more reliability and ruggedness to extend furnace life. Ranges from 5 kg to 25 ton capacity.



## Customer Review

We have purchased two melting coil for 8 tone plus energy efficient design LHS-26 no's flattern wound turns vide your invoice no. 35 dated 17-05-2018 and invoice no. - 74 dated 13-07-2018. This coil is very energy efficient and the melting coil is giving about 8.5 M.T. of molten metal with exiting power of near about 2700 KW due to higher molten metal quantity and revised coil design we are saving energy about 22-25 unit per M.T. subject to good working condition in the melting shop and also quality of scrap. The working of coil is quite satisfactory.

Jagdamba TMT Mills Limited  
Jaipur, Rajasthan (India)



## Features

- Heavy and Robust construction
- High performance
- Easy for maintenance.
- Longer service life
- Power Efficient Design



## Electromagnetic Components

We manufacturing and supply a wide range of Electromagnetic Components. We manufacture the components using optimum grade raw materials sourced from certified vendors. Our clients can order our Electromagnetic Components in different sizes and specifications as per their requirements and original furnace manufacturer standards.

### Features

- Compact designed
- Durable quality
- Quality materials



## Magnetic Yoke / Shunts

Supported by a group of highly qualified & experienced engineers, supplying an exclusive range of Magnetic Shunt/Yokes of any size of major furnace manufacture with the same dimensions and quality. We manufacture the yoke, using high quality raw materials, procured from the most reliable and trusted vendors. Our Magnetic Yoke is available in different models and specifications as per the client's requirements.

### Features

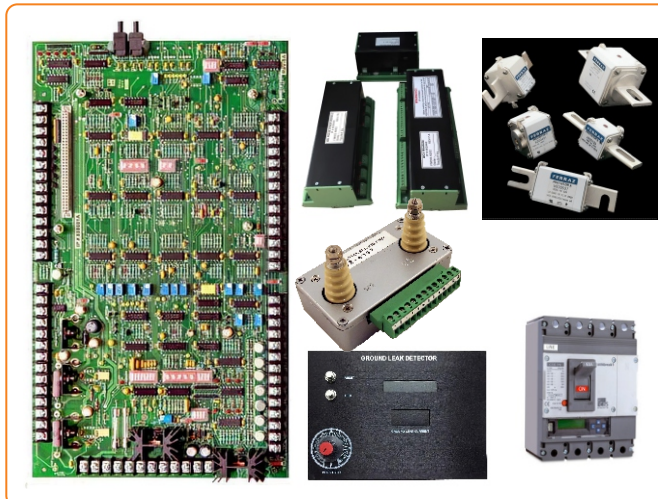
- Easy to use/fitment.
- Sturdy design for long life.
- Durable quality of CRGO/CRNGO stamping.



## Electronics Circuit Control Boards & Modules

We manufacture and repair Inductotherm, Ajax-Tocco Electrotherm and other brands of furnace panel circuit boards.

1. Main control board
2. Inverter firing circuit board
3. Converter firing circuit board
4. Ground leak detector modules
5. Monitor boards
6. Various types of potential sensors.
7. Short circuit protection modules
8. ACI
9. Opto bridge module

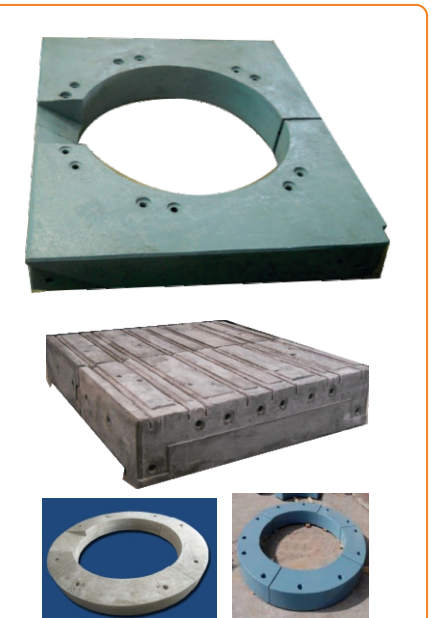


## Refractory Castable Top / bottom Blocks

Having an knowledge & expertise in the this industry, we are a renowned manufacturer and supplier of Refractory Castable Top/bottom Block used in industrial furnaces To comply with the set industrial norms, we use the finest quality materials to manufacture the blocks. Our quality inspectors check the Refractory Castable Top/bottom Block for durability and finishing parameters to offer a flawless product to the client. We are a manufacturer and supplier of all kinds of furnaces castable blocks for Inductotherm, Electrotherm, Ajax Tocco, Megatherm Furnace.

### Features

- Rugged design
- Crack free finishing (sometime redesigned for reduce unwanted breaking)
- Easy to assemble



## Spare Part Induction Furnace

To keep pace with the fast changing trends of the industry and customer demands, we are engaged in manufacturing and supplying an extensive range of Spare Part Induction Furnace. These parts are manufactured under the strict supervision of the expert professionals using high quality materials, sourced from reliable vendors. The parts are made available for the clients in different sizes, diameters and finishing as to suit the client's requirements and we offer our spare part induction furnace at reasonable prices. Standards of major all manufacturer of furnaces like Inductotherm, Electrotherm, Ajax Tocco, Megatherm etc.

### Features

- Rust proof finishing
- Durable quality
- Genuine raw material and reliable
- Technically match at existing machine.



## Furnace Hydraulics Accessories

We supply gear pumps, gear motors from, various gauges and valves. Directional control valves like Rexroth, Polyhydron and many other makes or can customize to your requirements.

1 HP, 3 HP ,5 HP, 7.5HP, 10 HP, 12 HP, 15 HP and up.





## Semiconductor Fuse and Thyristors

We have a strong presence in the market by supplying excellent quality IGBT Transistor, Semiconductor fuses, SCRs, Diodes, etc of known brands used in Induction furnaces. Our team checks for high quality materials, procured from the most authentic vendors. We carry all available sizes of SCRs and Diodes.

### Features

- Resistant to impact and long last performance at optimum load
- Over rating designed to handle extra electrical stress.
- Matching with existing electrical systems design



## Insulation Material

We supply an extensive range of insulation material. These materials are used in melting and heating furnaces for insulation purposes. Our quality inspectors check the insulation material on certain quality parameters before delivering to our clients at the competitive rates.

Types of such materials are.....

1. Silicon rubber tapes
2. Fibre glass insulations tape
3. Woven tape
4. Flexocoat base and hardner for coal coating, FRP Varnish
5. Polyester resin or varnish
6. Every type of Epoxy resin material used in various applications.
7. FRP spacer used in separation of coil turns



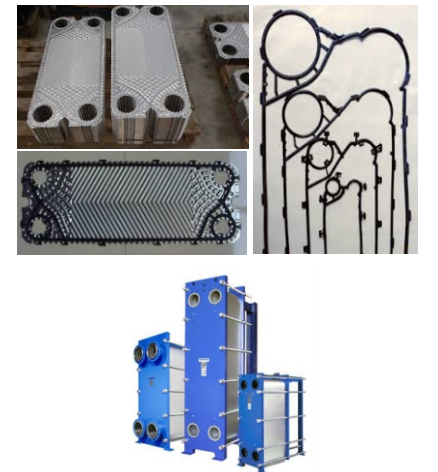
## Heat Exchanger Assembly, Plates & Gaskets

We supply water heat exchanger assemblies and its plates with NBR rubber gaskets as per required by KW and KG combination or any special customer requirements.

**GEA make PHE Assembly of following model :**  
VT-10, VT-20, VT-40, VT-20 CDS10, CDL-10 and NT50T, NT150 etc

**SWEP make PHE Assembly of following model:**  
GX-12 and GX-26 or any

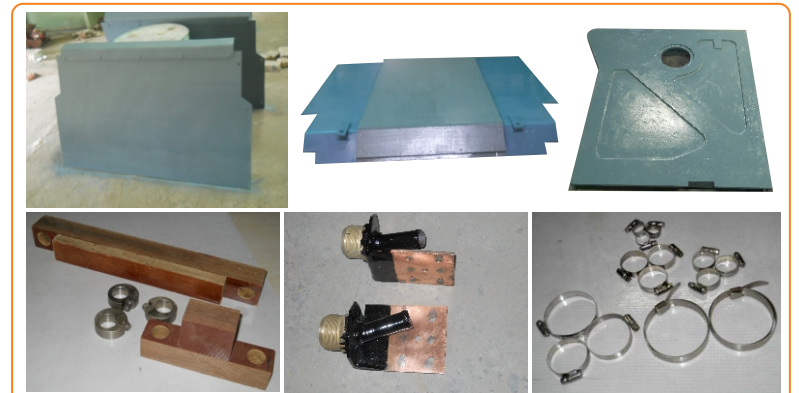
**ALFALAVAL make PHE Assembly and Plates :**  
P22 and all other series



## Miscellaneous Spare Part of the Furnace Accessories

We are supplying all kind spares like following

1. Aluminium Side Plate Die Cast
2. Restraining wood part of the furnace coil
3. Various type of Mica washers and fitting bush
4. All type of SS clamps used in furnaces
5. Busbar adapters of WCL (at busbar end)
6. Fibre glass sheet and covers.



## Hydraulics Cylinders, Seal Kits, Flexible Hoses

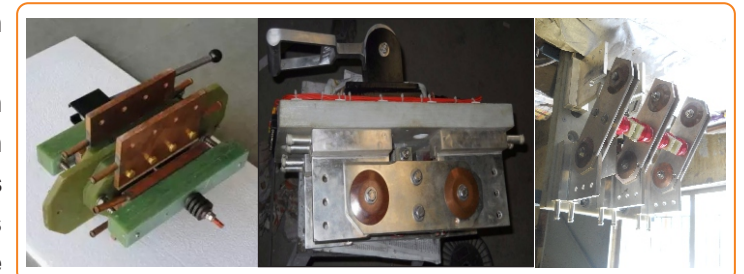
We offer following types of Hydraulic Cylinder for Induction Melting Furnace application:

Tilting Hydraulic Cylinder for any KG, any make of induction furnace  
Hydraulic Cylinder Rod end bearing blocks  
Hydraulic Push out Mechanism Cylinder  
Hydraulic Lid Mechanism Cylinder  
Seal Kits are available for all above types of Hydraulic Cylinder  
Non conductive Flexible hose used for hydraulic pipe line and its all type of fittings.



## Selector Switches

Our high quality Furnace Selector/Input Isolation Switches for Inductotherm, Electrotherm, Ajax Tocco, Megatherm. These switches are manufactured in compliance with set industrial norms, using only high quality materials. Available in different sizes, models and finishing, these switches are used in various furnace manufacturer models. We offer our Furnace Selector Switches at cost effective prices to the clients and deliver within the committed time frame.



### Features

- Corrosion proof finishing
- Sturdy construction
- Longer service life
- Electrically / Mechanically tested at set up.

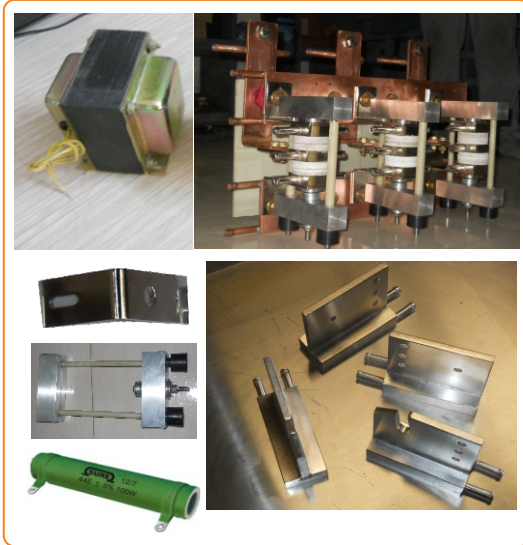


# Power Supply Spares

These are specially designed and dimensionally suitable to match with machines parameters without deviating the performance and maintain the quality of OEM Suppliers.

Just a few examples of what we can supply:

- 1. Thyristor clamp Assembly
- 2. Chiller device of Thyristors / IGBT
- 3. Insulating bushes used in clamp Assembly
- 4. Hardware of clamp Assembly
- 5. Various type of Teflon and Fiber sleeve wires used
- 6. Panel meters
- 7. Gauges, thermostat or sensors used



# Various Parts used in Furnace Assembly

These are specially designed and dimensionally accurate to fit without deviation of technical parameters with te OEM furnace manufacturers.

- 1. Pouring Spout
- 2. Cylinder cover and rod end bearing of pivot.
- 3. Various sizes of SS tie rods
- 4. SS hardware like nut bolt and other parts
- 5. Front and back covers of furnace
- 6. Platform support and its part
- 7. Insulating sheets and parts used at various places.
- 8. Trunnion pivot bearing etc.

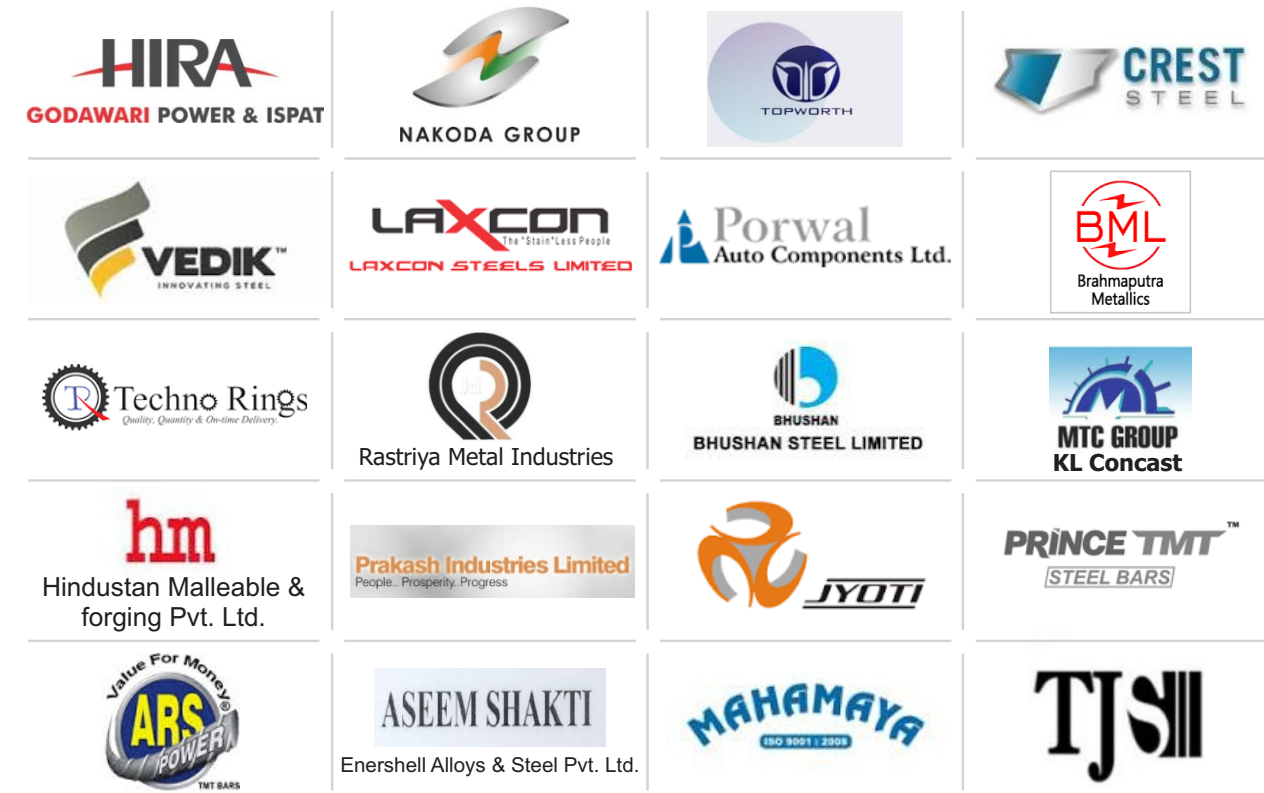


# Water Cool Power Cable

Made from finest grade of carbon free rubber hose (mostly Gates), 99% Conductive Ropes , Cloth Wrapped/Fire Jacket, machine press double clamps crimped both end. We manufacture of all kind of WCL cables for Inductotherm, Electrotherm, Ajex-Tocco, and Megatherm furnaces.



## OUR CLIENTS



## Client Satisfaction

Ours is a client centric firm and therefore, we devote utmost importance towards understanding the requirements of our clients and catering to them accordingly. As a result of our client based nature, we have assigned a separate team of client servicing executives, who remain in regular contact with our patrons. This helps us understand the changing requirements of our clients and hence, are able to come up with the most preferred products.



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Genuine & Reliable Induction Furnace & Spares

**CORPORATE & REGD. OFFICE**

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Web: [www.thermafield.com](http://www.thermafield.com)

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