



**Kerfa®**  
system solutions  
for furnaces

## Kerfa® SHS (Special Heating Systems)

Kerfa®, your partner for **industrial furnaces** and **appliances** with an extensive range of innovative **system solutions**.

Kerfa® produces efficient and long-lasting **electric resistive heating elements** as well as efficient **heating** and environmentally friendly **insulating systems** containing **vacuum-formed ceramic** or **bio fibers**.

**Kerfa® SHS (Special Heating Systems)** is another product line for the customers allowing a lot of special applications in addition to standard products.



Special requirements as there are geometries of furnaces and heating elements can be fulfilled by **Kerfa® SHS (Special Heating Systems)** in an energy efficient and economic way. Based on a process optimized production a wide variety of forms like heating coil plugs or cage elements can be delivered custom made on short delivery times. The Kerfa® heating elements used are made of high-grade alloys to ensure high power densities and long system serving life.



Complementary products like **holding elements, supporting tubes or branch pipes** were completing the new product line.

On requirement we offer custom made **logistic solutions** as there are consignment storage or fixed delivery times.

Tell us your needs and we create tailor made solutions. We are always available for you.



### ⇒ Customer benefits:

High plant availability by quick

temperature adjustments:

⇒ Reduced operating costs

High energy efficiency:

⇒ Reduced operating costs

Long system service life:

⇒ Lower investment costs

Lower maintenance requirements:

⇒ Reduced operating costs

Reduced storage cost by flexible production at Kerfa®:

⇒ Reduced operating costs



### Fields of application

- Industrial furnaces
- Laboratory furnaces
- Melting and holding furnaces for non-ferrous metals

- Thermal treatment facilities
- Protective gas generators
- Heating equipment and apparatus



## Product examples



Kerfa® SHS -  
heating coil plug



Kerfa® SHS - cage  
element meander



Kerfa® SHS - heating coil  
on ceramic supporting  
tube



Kerfa® SHS - meander  
heating element /  
heating coil



Kerfa® SHS -  
cage element heating coil

The vast range of innovative Kerfa® system solutions is consisting of:

### Products

- Vacuum-formed Kerfa® SAVAC® insulating systems for **gas-fired** and **electrically heated** furnaces
- Electric Kerfa® SAVAC® heating systems, **embedded or suspended**
- Installation-ready Kerfa® **heating elements**
- **Custom solutions** available in complex forms, too
- Extensive Kerfa® **accessories**
- Kerfa® **spare parts**

### Service

- Complete customer-specific production
- Feasibility studies
- Technical consultation during furnace engineering
- Worldwide installation
- Complete furnace linings
- Modernization and relining of existing installations

### Technical Details

#### Vacuum-Formed Parts

- Kerfa®-specific construction for increased stability and durability, even under vacuum
- Kerfa® sealing ledge to prevent unwanted heat transmission
- Kerfa® SAVAC® fibers feature low heat capacity and low thermal conductivity
- Minimal shrinkage and high thermal shock resistance
- Very high insulation values of Kerfa® SAVAC® insulating systems
- Kerfa® ceramic pot ideal for mounting Kerfa® SAVAC® insulating systems
- Dimensionally stable at high temperatures
- Easy replacement of vacuum-formed parts
- Rapid temperature adjustment

#### Heating Element

- Kerfa® heating elements are set at a distance from furnace wall and arranged in stable rows
- Optional mechanical safety hooks for heating wires
- Hollow-moulded Kerfa® heating wires, open in front
- Kerfa® electric resistive heating featuring high power density
- High temperature precision

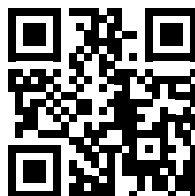
#### Temperature Ranges

Kerfa® SAVAC® insulating systems: Max. 1.600°C  
Kerfa® heating elements: Max. 1.400°C

We aim to create long-term partnerships and base our activities on the concept of unconditional customer orientation. For more information, visit [www.kerfa.com](http://www.kerfa.com).

Tell us your requirements and we will put together a tailor-made solution for you. Feel free to contact us at any time.

**Kerfa® – Made in Germany – used world wide**



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