



**Kerfa®**  
 system solutions  
 for furnaces

## Kerfa® SAVAC® insulating systems for gas-fired and electrically heated furnaces

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

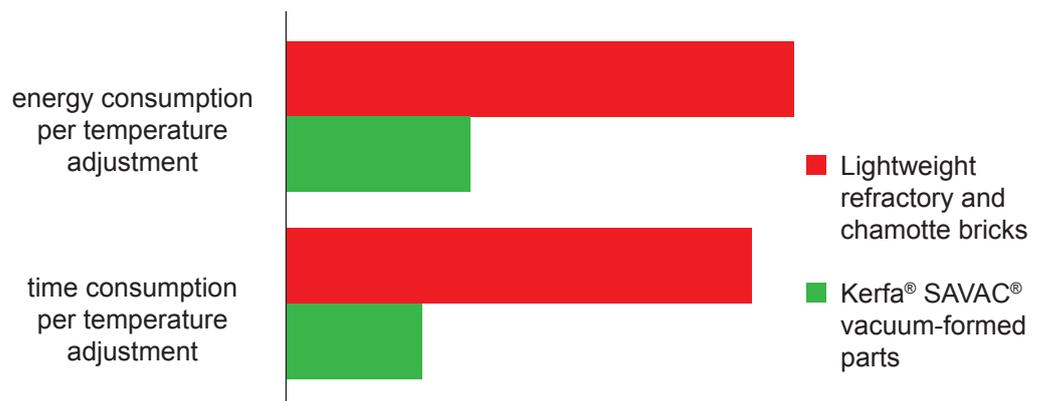
Kerfa® produces efficient, long-lasting and environmentally friendly **insulating systems for gas-fired and electrically heated furnaces**.

Innovative Kerfa® SAVAC® insulating systems contain **vacuum-formed ceramic fibers** in varying compositions. They are produced to customer specification and offer significant **customer benefits** compared with conventional materials.

By default, the hardened surfaces of Kerfa® SAVAC® vacuum-formed parts offer comprehensive protection against flaking of fiber parts and binding materials within **gas velocities** of common furnace designs.



	Kerfa® SAVAC® vacuum-formed parts	Lightweight refractory and chamotte bricks
Specific weight [kg/m³]	200	700 - 2.400
Specific heat capacity [kJ/kg K]	0,90	0,96 - 1,09



For certain applications in electrically heated furnaces Kerfa® SAVAC® **biofibers** may be used as well.

⇒ **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



## Product examples



Insulating half shell



Insulation end disc



Insulation plate



Insulation tube



Ceramic pots

## Fields of application of Kerfa® SAVAC® insulating systems

- Industrial furnaces
- Laboratory furnaces
- Melting and holding furnaces for non-ferrous metals
- Thermal treatment facilities
- Protective gas generators
- Heating equipment and apparatus

## Products

- Vacuum-formed Kerfa® SAVAC® insulating systems for **gas-fired** furnaces
- Vacuum-formed Kerfa® SAVAC® insulating systems for **electrically heated** furnaces
- Vacuum-formed Kerfa® SAVAC® insulating systems in **sintered design**
- Kerfa® **customized solutions** covering complex shapes
- 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

- 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
- Thermal treatment (sintering) to maintain the shape and dimensional stability even at high temperatures
- Optimized design of the vacuum-formed parts to avoid undefined heat loss from furnace interior space to furnace housing
- Very high insulation values of Kerfa® SAVAC® insulating systems
- Kerfa® ceramic pots ideal for mounting Kerfa® SAVAC® insulating systems
- Easy replacement of Kerfa® SAVAC® vacuum-formed parts
- Rapid temperature adjustment of production plants possible

## Temperature ranges

Kerfa® SAVAC® insulating systems: Max. 1.600°C

We aim to create long-term partnerships and unconditional customer orientation. For more information, also about Kerfa® **heating elements**, 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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