



## OVERVIEW OF REFRACTORY PRODUCTS



METALS



CERAMICS



GLASS



SPECIAL  
FURNACES



FUELS  
CHEMICALS  
ENERGY

top technology |  
creates confidence

**RATH**

# OVERVIEW

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## HIGH TEMPERATURE INSULATION WOOL (UP TO 1,650°C)

Rath products made of high temperature insulation wool (mats, punched parts or paper) are ideal for ultra-lightweight and efficient refractory solutions meeting stringent requirements and high temperatures up to 1,650°C. The excellent properties of Rath high temperature insulation wool reduce energy consumption making it economical and environmentally friendly.



## INSULATING FIRE BRICKS (UP TO 1,800°C)

Rath insulating fire bricks cover the complete range of applications up to 1,800°C with chemical and physical properties meeting the highest international standards. Our bricks feature low thermal conductivity, high cold crushing strength, good thermal shock resistance and high-temperature deformation resistance.



## VACUUM-FORMED PRODUCTS (UP TO 1,800°C)

Rath vacuum-formed products are manufactured using mineral and high temperature insulating wools. Depending upon the raw material these molded parts can be used at application temperatures of up to 1,800°C. The basic raw materials used are Polycrystalline wool (Altraform), Alumina-silica wool (Kerform), Alkaline-earth silica wool (Evac), Mineral wool (Newvac). The vacuum-formed products are suitable for use in oxidizing and reducing furnace atmospheres. They are made of high temperature wools with high temperature shock resistance.



## PRE-CAST BLOCKS (UP TO 1,800°C)

Rath pre-cast blocks are unique offering a variety of materials and pre-firing temperatures. Our highly automated production enables us to produce complex shapes. The basic ingredients of shaped castables can be combined in many different ways like dried/tempered/pre-fired, dense to insulating or low cement.



## DENSE SHAPED REFRACTORY PRODUCTS (UP TO 1,800°C)

Rath dense shaped refractory bricks can be used in applications up to 1800°C in all areas of industrial furnace construction. In addition to our standard product lines such as Suprath, Durrath, Alurath, Silrath or Korrrath, bricks with special shapes or materials using zircon mullite or silicon carbide are manufactured.



## UNSHAPED REFRACTORY PRODUCTS (UP TO 1,800°C)

Rath monolithics offer a broad spectrum of materials including dense and insulating, low cement and non-cement, vibration and self-flowing castables, plastic mixes, mortars and adhesives, fiberfoam and fiber coatings to meet the highest technical demand. For any application optimum durability can be achieved through the suitable combination of raw materials and processing.

RATH IN A GLANCE

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## THE RATH GROUP IS AN INTERNATIONAL COMPANY

**OFFERING A BROAD RANGE** of refractory products and is best known to provide innovative solutions in refractory technologies. As a full-service provider, we not only offer our customers a broad range of materials such as dense bricks, castables, monolithics, vacuum-formed products and high temperature insulating wool, but support them with overall solutions and

expertise from the planning and design to installation. Today, the Rath Group has seven production sites employing over 500 people in Europe and North America. You will find our ideas and products in sectors that place the highest demands on materials' performance. After all, this is precisely what our technology is designed to do.

# THE RATH GROUP

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