

# TECHNICAL CERAMICS

**W. HALDENWANGER**  
Technische Keramik GmbH & Co. KG

A member of The Morgan Crucible Company plc

Overview of products and technologies



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Overview of products and technologies

## Heat, Corrosion, Endurance, Insulation ...

State-of-the-art technology requires maximum performance from the materials involved. Technical Ceramics proves its durability when other materials have long failed. Through the use of pure synthetic raw materials Technical Ceramics is known as a competent and high-tech material for extreme applications. HALDENWANGER has been a crucial participant in the more than 135 year development of Laboratory Porcelain Manufacturing and is now the worldwide leading manufacturer of High Performance Ceramics.

Sillimantin 60  
Sillimantin 60 NG  
Sillimantin 65  
Sillimantin 65 NG  
Sillimantin 90  
Pythagoras  
CM, CZ, CZM  
Fused Silica  
Halsic-R  
Halsic-I  
Halsic-RX  
Halsic-S



## Excellent Surface Finish FUSED SILICA ROLLERS

Outstanding mechanical features and a special surface quality make our Fused Silica Rollers indispensable as transport rollers in various glass tempering furnaces. Safety glass for architecture and the automobile industry is just one example of products refined in such furnaces. Moreover, we offer various types of Fused Silica Rollers, also with integrated metal caps. Customised designs are always possible.



hollow rollers, solid rollers, integrated metal caps, grooved rollers and other customised designs

## Tradition LABORATORY PORCELAIN

We have been producing and optimising our Laboratory Porcelain for more than 135 years. Our quality and our wide range of products have established our globally reputation. Our Laboratory Porcelains are in accordance with DIN VDE 0335, Type C 110. For special requirements we manufacture laboratory products such as crucibles, plates, bins, combustion boats, also from Alsint 99.7 impervious or Alsint porous.



mortars, pestles, evaporating basins, incinerating dishes, melting crucibles, filter crucibles, filter discs, plates, funnels, ball mills, spoon spatulas, combustion boats ...

## Variety TUBES

Stable processes require customised components. Our comprehensive range of Tubes delivers optimal solutions for applications up to 2000°C – in aggressive mediums as well as in alternating thermal stress loads. We offer all in all 15 oxide and carbide materials in countless designs, such as Sillimantin 60 (C 530), Alsint 99.7 (C 799) and Pythagoras (C 610), in compliance with DIN VDE 0335. Use the array of HALDENWANGER products to optimise your processes.



protection tubes,  
insulators, radiant heating tubes,  
rollers for electric heated furnaces,  
beams, profiles, refractories  
and special shapes

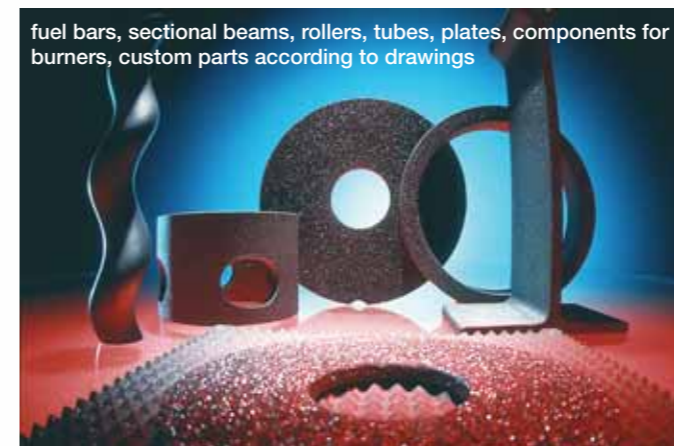
## Long Service Life ROLLERS

Optimally customised materials and dimensions extend the service life of the ceramic rollers. A unique range of materials with a total of more than 10 oxide and carbide materials for application temperatures of up to 2000°C combined with more than 40 years of know-how guarantees the long service life of our Rollers. We manufacture Standard and High-End products for standard applications, including firing of wall and floor tiles, porcelain dishes, sanitary ceramics, roofing tiles, etc. Our patented Top-Quality synthetics are ideal for metal tempering and other extreme applications.



## High Performance HALSIC

The name Halsic consists of four remarkable ceramic high-performance materials from the silicon carbide (SiC) group. Aside from high-quality Halsic-R (recrystallised SiC), Halsic-I (silicon infiltrated SiC) and Halsic-S (sintered SiC) we offer our patented Halsic-RX material, which is extremely resistant to oxidation owing to unique SiC properties.



fuel bars, sectional beams, rollers, tubes, plates, components for burners, custom parts according to drawings

## Flexibility SPECIALITIES

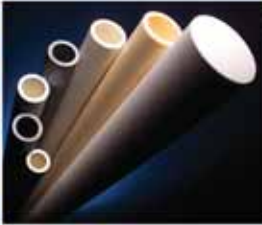
Customised products are also in good hands with us. Aside from our large variety of production technologies such as extrusion, casting, isostatic pressing and dry pressing, HALDENWANGER also manufactures customised die cast components. We can also supply zirconium oxide (Y-TZP, MgO-PSZ and CaO-FSZ) for special uses.



Variety  
TUBES

Excellent Surface Finish  
FUSED SILICA ROLLERS

Tradition  
LABORATORY PORCELAIN



Long Service Life  
ROLLERS

High Performance  
HALSIC

Flexibility  
SPECIALITIES



**W. HALDENWANGER**  
Technische Keramik GmbH & Co. KG

Teplitzer Str. 27 · D-84478 Waldkraiburg

Tel. +49 - (0)8638 60 04-0

Fax +49 - (0)8638 60 04 317

info@haldenwanger.de

www.haldenwanger.de



Haldenwanger forms part of The Morgan Advanced Ceramics group, which is a global business unit of The Morgan Crucible Company plc.

**Morgan**

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beat the heat  
beat the heat

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