www.paul-rauschert.com

Rauschert

TECHNICAL CERAMICS

ELEKTRA

Steatite und techn. Porcelain Products

Innovation meets tradition.

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TECHNICAL CERAMICS

YOUR BENEFITS

Good performance in all areas at comparatively -
low cost increases your own added value and market acceptance

Good reproducibility of your desired geometry -
fast on the market and fast to your customer

Designed for mass production -
very good delivery capability, even on your side

Mature and traditional products -
you enjoy the advantages of our 'Made in Germany' experience

PRODUCT PROPERTIES

ELEKTRA 110 (technical porcelain – the classic)

Our ELEKTRA 110 technical porcelain is characterized by its **excellent electrical insulation properties, good mechanical strength and good chemical resistance in neutral or acidic environments.**

Technical porcelain is used, for example, in high- and low-voltage electrical engineering, wear protection in textile machines, for example, or as column bodies in chemical process plants.

Even today, this classic technical ceramic material still has its place and can offer a very good alternative depending on the application. We are happy to offer **glazing as an additional treatment for the material to increase its sliding properties and protect it against dirt adhesion**.

ELEKTRA 221 (steatite)

Our steatite, known as ELEKTRA 221, combines material properties that offer users many advantages in a single product. Steatite has **high insulating properties, good mechanical strength and high chemical resistance.** It is also ideal for applications that require high temperatures and extreme conditions.

Thanks to our production capabilities and raw materials, it is a very inexpensive product, especially for high volumes. Due to its excellent electrical insulation properties and strength, our ELEKTRA 221 steatite is used in electronics assemblies as a carrier and insulator.

The proven corrosion resistance of steatite makes it the first choice when it comes to materials in the chemical industry. If high strength is required, steatite is preferable to traditional technical porcelain. produced low-priced.

TYPICAL VALUES	ELEKTRA 110	ELEKTRA 221
Material base	Techn. porcelain	Steatite
Open porosity %	0	0
Density [g/cm³]	2.2	2.7
Tensile Strength [MPa]	50	140
Coefficient of linear expansion 20-600°C $10^{-6}K^{-1}$	4-7	7-9
thermal conductivity [W/mK]	1-2,5	2-3
Thermo shock resistance	good	good
Resistivity 20°C	10^{11}	10^{11}
Resistivity 600 °C	10^{2}	10^{5}
Breakdown Voltage [KV/mm]	20	20

Your Inquiry – Fast & Precise Quotation
For a fast and precise quotation, please send us a drawing of the component along with details on quantities and tolerances. We will be pleased to advise you personally.

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