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Rauschert

TECHNICAL CERAMICS

RAMUL

Alumosilicate

Innovation meets tradition.

RAMUL
Alumosilicate

Our **RAMUL** is a **gas-tight alumosilicate**. We offer this material in two different variations depending on the Al2O3 content. It is a very versatile material and, due to its high dielectric strength and mechanical strength, is very often used as a fuse body especially for so-called **NH cartridges**. Preferably, this material is produced by our extrusion process.
If it is necessary to use a different process in terms of design, we are open to it.

TECHNICAL CERAMICS

PRODUCT PROPERTIES

RAMUL 610

A mullite material of type C610 according to DIN EN 60672-3. Its high application temperature of **up to 1,400 °C** makes it a possible candidate for your **high-temperature applications**. The high dielectric strength and good **corrosion resistance** stand for safe use as **an insulator** even under adverse conditions.

Our **Ramul 610** stands for a versatile material for demanding thermal, chemical and mechanical applications in furnace construction and temperature measurement.

RAMUL 620

The **high dielectric strength** coupled with a sufficiently **high thermal conductivity** also makes this material interesting as a partner for the heat dissipation of **electronic components**. Thermal management in electronic assemblies is becoming increasingly important due to the **high-power density**.

TYPICAL VALUES	RAMUL 610	RAMUL 620
Material base	Alumosilikate	Alumosilikate
Main Component	Al_2O_3 50-60%	Al_2O_3 65-80%
Open porosity %	0	0
Density [g/cm³]	2.6	2.8
Tensile Strength [MPa]	100	150
Coefficient of linear expansion 20-600°C $10^{-6}K^{-1}$	5-7	5-7
thermal conductivity [W/mK]	2-6	6-15
Thermo shock resistance	good	good
Resistivity 20°C	10^{11}	10^{12}
Resistivity 600 °C	10^{4}	10^{5}
Breakdown Voltage [KV/mm]	17	15

YOUR BENEFITS

Versatile material with good imageability and price/performance ratio if you are looking for **excellent electrical insulation with very good strength and cost-effectiveness**.

Your benefit is our proven and established standard extrusion process. With l**ow tool costs and our own tool construction**, we ensure **faster implementation.**

We can rework by milling to achieve tighter tolerances, drill holes or cut threads oft metal part applications in a semi-automated process - **it will keep your costs low.**

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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