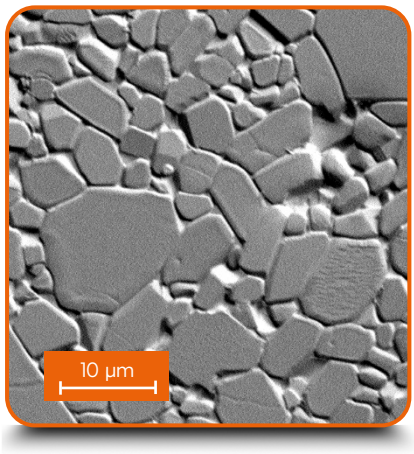
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Material Data Sheet
A96

General Information

Name	Alumina
Material Group	C795
Description	Alumina with Al_2O_3-content 96%



SEM Image: typical microstructure of A96

Properties (exact values depending on sub-variant & shaping)	**Value**	**Unit**
Color	white to off-white	
Density	~ 3,8	g/cm³
Bending Strength (3-Point)	> 310	MPa
Hardness (HV10)	~ 1400	-
Specific Volume Resistance (20°C)	~ 10^{13}	Ωm
Thermal Conductivity (20°C)	~ 25	W/mK
Specific Heat (20°C)	~ 900	J/kgK
Coefficient of Thermal Expansion (30 – 1.000°C)	~ 8,5	10^{-6} K^{-1}
Max. Application Temperature	~ 1500	°C
Typical Chemical Composition (of used powder)		
Al_2O_3	96	%
Na_2O	< 0,1	%

REACH-Information:
This product is not subject to registration requirements under Regulation (EC) No. 1907/2006 (REACH). To the best of our knowledge, it does not contain any Substances of Very High Concern (SVHC) above the threshold of 0.1% by weight.

Disclaimer:
The data and information in this document are based on tests believed to be reliable and are indicative only. They are given to demonstrate typical values of the material but should under no circumstance be considered as a formal commitment. Material proposal is made according to specifications provided by the customer. These are non-binding suggestions on the part of the Sembach company without assumption of any development activity and/or liability. Application and acceptance of these is the sole decision-making authority of the customer. Requirements for the product are to be specified exclusively by the customer, and each customer must conduct its own testing for safety and regulatory evaluations. We point out that the Sembach company does not perform any development activity.

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