

## CeramTec Rubalit® A 1896 brown Alumina

Category : Ceramic , Oxide , Aluminum Oxide

### Material Notes:

CeramTec AG's seal and regulator discs are made mainly of Rubalit® A 1896, a material developed especially for this application that is noted for the following special properties: outstanding hardness - A diamond-grade surface hardness effectively prevents wear. Solid foreign particles are crushed and flushed out; chemical inertia - The material does not react with water. Given its resistance to acid and caustic attack, Rubalit® A 1896 is suitable not only for sanitary fittings but also for industrial use; and no aging - The material's all-mineral structure remains unchanged over extended periods of use.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_CeramTec-Rubalit-A-1896-brown-Alumina.php](http://www.lookpolymers.com/polymer_CeramTec-Rubalit-A-1896-brown-Alumina.php)

Physical Properties	Metric	English	Comments
Density	3.82 g/cc	0.138 lb/in <sup>3</sup>	
Water Absorption	0.00 %	0.00 %	
Permeability	0.00	0.00	Gas
Weibull Modulus	>= 12	>= 12	

Mechanical Properties	Metric	English	Comments
Vickers Microhardness	1330	1330	HV 0.5
Tensile Modulus	350 GPa	50800 ksi	Young's
Flexural Strength	350 MPa	50800 psi	
Compressive Strength	3490 MPa	506000 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	4.20 µm/m-°C	2.33 µin/in-°F	
	@Temperature 20.0 - 200 °C	@Temperature 68.0 - 392 °F	
Specific Heat Capacity	0.900 J/g-°C	0.215 BTU/lb-°F	
	@Temperature 20.0 - 100 °C	@Temperature 68.0 - 212 °F	
Thermal Conductivity	24.0 W/m-K	167 BTU-in/hr-ft <sup>2</sup> -°F	
	@Temperature 20.0 - 100 °C	@Temperature 68.0 - 212 °F	

Descriptive Properties	Value	Comments
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Color Descriptive Properties	Brown Value	Comments
Ra = Arithmetic Mean Roughness Value (µm)	0.2	
Surface Contact Area (%)	60-80	
Thermal Shock Resistance R1 (K)	150	

**Contact Songhan Plastic Technology Co.,Ltd.**

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