

BISQUE ALUMINA

INTA Technologies Corporation
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Bisque alumina is an alumina body that has been fired to approximately 2475 deg F. It can be used in its bisque form or in a fully fired state. When fired to approximately 3100 deg F it becomes a dense, hard material, and both the electrical and mechanical properties are impacted. When fired, bisque alumina shrinks between 15% and 18%. In its bisque form this material can be readily machined using conventional tooling.

Applications include electrical insulators, prototyping for other materials, and temperature resistant components such as heat-treat fixtures and heater cores. Bisque alumina is available in either rod or plate form.

From prototypes to small or high volume production, the INTA Technologies and Superior Technical Ceramics highly qualified and friendly staff is available to provide design and engineering support. If your company requires a quality solution for a complex product delivered on-time with exceptional service, our staff is ready to assist you.

Bisque Alumina

Property	Designation	Bisque Fired	Fully Fired
Color		White	White
Hardness	Mohs	3.5	9
Water Absorption	%	10	Impervious
Specific Gravity		2.77	3.65
Compressive Strength	PSI	9,000	300,000
Flexural Strength	PSI	4,000	37,000
Max. Operating Temp. Under Non Loading Conditions	Deg C	1357	1700
	Deg F	2475	3100
Dielectric Strength (1/4" Thick)	Volts/mil	80	220

Table One

Note: The information in Table One is for design guidance only. INTA Technologies Corporation does not warranty this data as absolute values. Forming methods and specific geometry can affect properties. Slight adjustments can be made to some of the properties to accommodate specific customer requirements. Most of the dense materials in the table are resistant to mechanical erosion and chemical attack. STC has performed ASTM testing and MIL-I-10B qualification for certain compositions.