



Product Specification Change

PSC#: 07-003

Effective Date: Jan. 23, 2007

Glemco P/N: 99257

OEM Cross Ref.: 5001355

Description: Ceramic Insulator Ball



Glemco Inc. is pleased to announce as part of our continuing efforts to supply superior products, a new version of the Ceramic Insulator Ball (P/N 99257). The modification incorporates an alumina content of 99.5%, instead of 96% as previously offered. This new version will produce improved thermal and electrical characteristics as shown in the chart to the right. You will notice a slight difference in color between the two materials. There is a creamier white tint on this updated part. This improvement comes without any change in cost.

Aluminum Oxide (Al₂O₃) Property Data Sheet

Material Properties	Units of Measure	<i>AL203 96</i>	<i>AL203 99.5</i>
Physical			
		White	White/Ivory
Hardness	MOHS Scale	9.0	9.0
Water Absorption	%	0	0
Specific Gravity	g/cc	3.96	3.85
Mechanical			
Tensile Strength	PSI	25,000	25,000
Compressive	PSI	375,000	375,000
Flexural	PSI	45,000	45,000
Fracture Toughness	MPa x <i>m</i> ^{1/2}	4.5	4.5
Thermal			
Thermal Conductivity	W/m °K @ 25 °C	24.7	35.6
Coefficient of Thermal Exp.	25-600 °C x 10 ⁻⁶ per °C	7.5	7.4
Max. Usage Temperature	°C	1750	1750
Electrical			
Te Value	Temp @ which resistivity is 1 MEGOHM-CM C	840	940
Dielectric Constant	1 MHZ @ 25 °C	9.3	9.3
Dielectric Strength	Volts/Mil	230	230
Loss Factor	1 MHZ @ 25 °C	.0028	.0018
<small>The information set forth herein is offered by comparison only, and is not to be construed as absolute engineering data or constituting a warranty or representation for which we assume legal responsibility</small>			