

## McDanel Advanced Ceramics 99.8% Alumina

Category : Ceramic , Oxide , Aluminum Oxide

### Material Notes:

Information provided by McDanel Advanced Ceramic Technologies

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_McDanel-Advanced-Ceramics-998-Alumina.php](http://www.lookpolymers.com/polymer_McDanel-Advanced-Ceramics-998-Alumina.php)

Physical Properties	Metric	English	Comments
Bulk Density	3.91 g/cc	0.141 lb/in <sup>3</sup>	
Porosity	0.00 %	0.00 %	

Mechanical Properties	Metric	English	Comments
Flexural Strength	380 MPa	55100 psi	
	165 MPa	23900 psi	
	@Temperature 538 Â°C	@Temperature 1000 Â°F	
Compressive Strength	3650 MPa	529000 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	8.40 Âµm/m-Â°C	4.67 Âµin/in-Â°F	
	@Temperature 20.0 - 1000 Â°C	@Temperature 68.0 - 1830 Â°F	
Thermal Conductivity	36.0 W/m-K	250 BTU-in/hr-ftÂ²-Â°F	
	8.20 W/m-K	56.9 BTU-in/hr-ftÂ²-Â°F	
	@Temperature 800 Â°C	@Temperature 1470 Â°F	
Maximum Service Temperature, Air	1800 Â°C	3270 Â°F	no load

Component Elements Properties	Metric	English	Comments
Al2O3	99.82 %	99.82 %	
B2O3	0.0010 %	0.0010 %	
CaO	0.040 %	0.040 %	
Cr2O3	0.0030 %	0.0030 %	
Fe2O3	0.025 %	0.025 %	

Component Elements Properties	Metric	English	Comments
K <sub>2</sub> O	0.0010 %	0.0010 %	
MgO	0.035 %	0.035 %	
Na <sub>2</sub> O	0.0080 %	0.0080 %	
SiO <sub>2</sub>	0.060 %	0.060 %	
TiO <sub>2</sub>	0.0040 %	0.0040 %	

## Contact Songhan Plastic Technology Co.,Ltd.

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