

## Sharadaa Ceramics REFINSUL ZAP-021 Insulating Castables

Category : Ceramic , Oxide , Silicon Oxide

### Material Notes:

Description: We provide our clients a range of Insulating Castables, that are used as backup layer in process industries and hot face layer in petrochemical industry. These castables are known for low density and low thermal conductivity, and are helpful in conserving heat energy thus reducing fuel costs. Information provided by Sharadaa Ceramics Pvt. Ltd.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Sharadaa-Ceramics-REFINSUL-ZAP-021-Insulating-Castables.php](http://www.lookpolymers.com/polymer_Sharadaa-Ceramics-REFINSUL-ZAP-021-Insulating-Castables.php)

Physical Properties	Metric	English	Comments
Bulk Density	<= 2.05 g/cc	<= 0.0741 lb/in <sup>3</sup>	Dried at 110 <sup>o</sup> C

Mechanical Properties	Metric	English	Comments
Modulus of Rupture	0.00245 GPa	0.355 ksi	
	@Treatment Temp. 800 <sup>o</sup> C	@Treatment Temp. 1470 <sup>o</sup> F	
Compressive Strength	0.00588 GPa	0.853 ksi	
	@Treatment Temp. 800 <sup>o</sup> C	@Treatment Temp. 1470 <sup>o</sup> F	
Compressive Strength	20.6 MPa	2990 psi	Dried at 110 <sup>o</sup> C, Cold Crushing
	24.5 MPa	3560 psi	Fired at 400 <sup>o</sup> C, Cold Crushing
	31.4 MPa	4550 psi	Fired at Service temp. of 800 <sup>o</sup> C, Cold Crushing

Thermal Properties	Metric	English	Comments
Thermal Conductivity	<= 0.697 W/m-K	<= 4.84 BTU-in/hr-ft <sup>2</sup> - <sup>o</sup> F	
	@Temperature 500 <sup>o</sup> C	@Temperature 932 <sup>o</sup> F	

Component Elements Properties	Metric	English	Comments
Al2O3	15 - 20 %	15 - 20 %	
SiO2	70 - 75 %	70 - 75 %	

Descriptive Properties	Value	Comments
Permanent Linear Change	<-0.1%	Fired at 110 <sup>o</sup> C
	<-0.2%	Fired at Service temp. 500 <sup>o</sup> C

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

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