

## Gouda Vuurvast FI 45-12 Insulating Refractory Brick

Category : Ceramic , Oxide , Aluminum Oxide , Silicon Oxide

### Material Notes:

This data represents average values, obtained from samples that were cut from standard bricks. Information provided by Gouda Vuurvast.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Gouda-Vuurvast-FI-45-12-Insulating-Refractory-Brick.php](http://www.lookpolymers.com/polymer_Gouda-Vuurvast-FI-45-12-Insulating-Refractory-Brick.php)

Physical Properties	Metric	English	Comments
Density	1.15 - 1.25 g/cc	0.0415 - 0.0452 lb/in <sup>3</sup>	Apparent

Mechanical Properties	Metric	English	Comments
Compressive Strength	8.00 - 12.0 MPa	1160 - 1740 psi	Cold Crushing Strength

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.370 - 0.470 W/m-K	2.57 - 3.26 BTU-in/hr-ft <sup>2</sup> - <sup>o</sup> F	
	@Temperature 200 <sup>o</sup> C	@Temperature 392 <sup>o</sup> F	
	0.400 - 0.500 W/m-K	2.78 - 3.47 BTU-in/hr-ft <sup>2</sup> - <sup>o</sup> F	
	@Temperature 600 <sup>o</sup> C	@Temperature 1110 <sup>o</sup> F	
	0.470 - 0.570 W/m-K	3.26 - 3.96 BTU-in/hr-ft <sup>2</sup> - <sup>o</sup> F	
	@Temperature 1000 <sup>o</sup> C	@Temperature 1830 <sup>o</sup> F	
Maximum Service Temperature, Air	1450 <sup>o</sup> C	2640 <sup>o</sup> F	
Shrinkage	0.200 - 0.600 %	0.200 - 0.600 %	
	@Temperature 1420 <sup>o</sup> C, Time 86400 sec	@Temperature 2590 <sup>o</sup> F, Time 24.0 hour	

Component Elements Properties	Metric	English	Comments
Al <sub>2</sub> O <sub>3</sub>	47 %	47 %	
Fe <sub>2</sub> O <sub>3</sub>	<= 1.5 %	<= 1.5 %	
SiO <sub>2</sub>	47 %	47 %	

Descriptive Properties	Value	Comments
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Segercon Descriptive Properties	35 Value	Comments
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## Contact Songhan Plastic Technology Co.,Ltd.

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