

ACP 197

Classification	Acid-Resistance Brick		
	Brick for Chemical-Resistant Masonry Unit (Type II, ASTM C 279)		
	Lining Block for Free-Standing Chimneys (Type S3, DIN 1057)		
Physical Properties	Refractoriness	Orton Cone	27
	Bulk Density	kg/m ³	2250
	Apparent Porosity	%	8.0
	Water Absorption	%	4
	Cold Crushing Strength	kg/cm ²	700
	Modulus of Rupture	kg/cm ²	130
	Permanent Linear Change After Heating at 1400 °C	%	-0.80
	Acid Solubility	% Wt. Loss	< 3
	Chemical Composition	Alumina (Al ₂ O ₃)	%
Silica (SiO ₂)		%	58.0
Iron Oxide (Fe ₂ O ₃)		%	1.3
Alkalies (Na ₂ O+K ₂ O+Li ₂ O)		%	1.5
Thermal Expansion	400 °C	%	0.37
	800 °C	%	0.48
	1000 °C	%	0.59
	1200 °C	%	0.70
Thermal Conductivity	200 °C	W/m.K	1.12
	400 °C	W/m.K	1.17
	600 °C	W/m.K	1.21
	800 °C	W/m.K	1.25
	1000 °C	W/m.K	1.38

The above data are typical properties of 9" commercial straight brick. The data are subjected to reasonable variations and should not be used for specification purposes.

ASTM test methods, and SRIC's written procedure, where applicable, used for determination of data.

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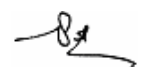
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MATERIAL SAFETY DATA SHEET

Revision : 3

Date : 19 November 2003

Product Name : ACP 197 Acid-Resistance Brick Brick for Chemical-Resistant Masonry Unit (Type II ,	
Ingredients :	
SiO ₂	58.0 %
Al ₂ O ₃	36.0 %
Fe ₂ O ₃	1.3 %
K ₂ O+Na ₂ O+Li ₂ O	1.5 %
CAS No. 66402-68-4 : Ceramic material and wares	
Physical Properties :	
- Appearance	White Yellow , No Odor
- Form	Brick
- pH	Not Applicable
- Solubility in Water	Insoluble
Fire and Explosion Data	
Unless Otherwise noted , none (Product is a refractory and will not burn)	
Health Hazard Data	
- Carcinogenicity	: Not Applicable
- Inhalation	: May irritate the respiratory tract on prolonged or repeat contact and May aggravate pre-existing respiratory conditions.
- Skin Contact	: Repeated or prolonged contact may cause irritation
- Eyes Contact	: May irritate or injure eyes
- Ingestion	: No Reported
Emergency or First Aid Procedures : when Irritants to :	
- Inhalation	: Move to fresh air
- Skin Contact	: Wash from skin using copious of water
- Eyes Contact	: Flush eyes using copious of water
- Ingestion	: Do not induce vomiting , drink plenty of water
Handling Precautions :	
Protective Gloves , Eye Protection , Dust Mask	
Advice on Label : Not Applicable	
Disposal Information :	
Material : No Special Precautions.	
Package : No Special Precautions.	

Approved by :  Date : 19-Nov-03
Quality Assurance Manager