

Skamol Group ISOPERLOR 550P Perlite Insulating Brick & Block

Category : Ceramic , Oxide

Material Notes:

ISOPERLOR perlite insulating bricks & blocks have the following characteristics: Max. service temperature 900°C (1652°F) Back-up insulation only Excellent insulating properties Very lightweight and highly porous Widely used for lining aluminum reductions cells due to their high resistance to cryolite bath, molten aluminum and fluoride gas exposure Information provided by Skamol.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Skamol-Group-ISOPERLOR-550P-Perlite-Insulating-Brick-Block.php

Physical Properties	Metric	English	Comments
Bulk Density	0.545 g/cc	0.0197 lb/in ³	Dry
Loss On Ignition	12.0 %	12.0 %	
	@Temperature 1025 °C	@Temperature 1877 °F	
Porosity	77 %	77 %	Total
Permeability	3.4	3.4	nPm, Permeability to Air; BS EN 993-4: 1995

Mechanical Properties	Metric	English	Comments
Modulus of Rupture	0.000500 GPa	0.0725 ksi	EN 993-6: 1995
Compressive Strength	2.00 MPa	290 psi	EN 1094-5: 1995

Thermal Properties	Metric	English	Comments
CTE, linear	1.00 Åµm/m-Å°C	0.556 Åµin/in-Å°F	BSÅ 1902: section 5.3: 1990
	@Temperature 20.0 - 750 Å°C	@Temperature 68.0 - 1380 Å°F	
Specific Heat Capacity	0.700 J/g-Å°C	0.167 BTU/lb-Å°F	
Thermal Conductivity	0.110 W/m-K	0.763 BTU-in/hr-ftÅ²- Å°F	Mean temp.; ASTMÅ C-182
	@Temperature 200 Å°C	@Temperature 392 Å°F	
Thermal Conductivity	0.120 W/m-K	0.833 BTU-in/hr-ftÅ²- Å°F	ASTMÅ C-182
	@Temperature 400 Å°C	@Temperature 752 Å°F	
Thermal Conductivity	0.140 W/m-K	0.972 BTU-in/hr-ftÅ²- Å°F	ASTMÅ C-182
	@Temperature 600 Å°C	@Temperature 1110 Å°F	

Thermal Properties	Temperature, Air	Metric C	English F	Comments
Shrinkage		1.40 % @Temperature 1000 Â°C, Time 43200 sec	1.40 % @Temperature 1830 Â°F, Time 12.0 hour	Linear Reheat Shrinkage; EN 1094-6: 1999

Component Elements Properties	Metric	English	Comments
Al2O3	6.0 %	6.0 %	
CaO	38 %	38 %	
Fe2O3	2.3 %	2.3 %	
K2O	1.5 %	1.5 %	
MgO	0.90 %	0.90 %	
Na2O	1.4 %	1.4 %	
SiO2	36 %	36 %	
SO3	1.1 %	1.1 %	
TiO2	0.10 %	0.10 %	

Descriptive Properties	Value	Comments
Change After Fluoride Gas Exposure	7.5 Volume %	ALILAB/SINTEF - method, 48h at 850Â°C (1562Â°F)
	9.6% Weight Percent	ALILAB/SINTEF - method, 48h at 850Â°C (1562Â°F)
Color	Grey	
Creep in Compression	0.4%	BS EN 993-9: 1997, after fluoride gas exposure, 50h at 800Â°C (1472Â°F), load 0.1 MPa (14.5 psi)
Pyrometric Cone Equivalent	1230Â°C	ASTM C24-89, ORTON cones

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