



ACID BRICK - ASTM C279 TYPE-III

DATA SHEET	April-18
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SR NO	PHYSICAL PROPERTIES	RESULTS
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1	WATER ABSORPTION, % by 2 Hr boiling Test	1.5 % Maximum (Each Individual Bricks) 1.0 % Maximum (Average of 5 Bricks)
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2	POROSITY, %	3% MAXIMUM
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3	BULK DENSITY, (G/CC)	2.35
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4	MODULUS OF RUPTURE, PSI	2000 Minimum (Each Individual Brick) 2500 Minimum (Average of 5 Bricks)
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5	COMPRESSIVE STRENGTH, PSI	10667
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6	ACID SOLUBILITY, % Weight Loss	8% Maximum (Each Individual Brick) 8% Maximum (Average of 5 Bricks)
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7	THERMAL CONDUCTIVITY,	BTU
	IN/HR SQ FT	
	AT 300 °F	7.92
	AT 600 °F	8.35
	AT 1200 °F	9.14
	AT 1600 °F	10.28



SR NO	CHEMICAL PROPERTIES			RESULTS, %
1	Al ₂ O ₃			23.75
2	SiO ₂			66.65
3	MgO			0.5
4	TiO ₂			1.1
5	CaO			0.95
6	Fe ₂ O ₃			1.2
7	ZrO ₂			0.035
8	Na ₂ O			2.5
9		K ₂ O		2.9

Warpage Tolerance

Face Dimensions 203 mm or less = Maximum permissible warpage 1 mm

Face Dimensions 203 mm to 305mm = Maximum permissible warpage 1 mm

Dimensions Tolerances

Length (200 mm or above) = +/- 1% Or Less

Width (100 mm or above) = +/- 1% Or Less

Thickness (50 mm or above) = +/- 2% Or Less

Color: Off-white brick. There may be some color variation found on the brick due to manufacturing process but all the properties will confirm to our datasheet.

Surface Appearance: Brick surface shall be even and free from any undulation, cracks and holes

The customer must comply strictly with the instructions contained in this product data sheet. IK is not responsible for any advice or variations to this data sheet which is not confirmed in writing. If the customer has a claim against IK in respect of any product supplied to the customer by IK whether due to a fault in the product or the negligence or breach of contract by IK or for any other reason. IK shall not be liable for any loss of damage including consequential loss or damage or loss of profits arising thereby;

b. IK may at its option replace the defective product free of charge to the customer or refund all payments made to it by the buyer in respect of the defective product; and the maximum liability of IK shall be the cost of replacing the defective product.