



Technical Data

KRIAL[®] 50-A

50% ALUMINA, CREEP RESISTANT BRICK
(BLAST FURNACE CHECKERS ONLY)

PHYSICAL PROPERTIES (ASTM procedures used where applicable)	Pyrometric Cone Equivalent:	34 - 35
	Bulk Density, pcf:	149
	Cold Crushing Strength, psi:	7400
	Apparent Porosity, %:	16.7
	Hot Load Deformation, %: 2640°F (1450°C) & 25 psi	0.2 - 0.4
	Creep (50 Hours), %: 2600°F (1425°C) & 25 psi	0.5 - 1.5
	Creep (20th-50th Hour), %: 2460°F (1350°C) & 28.4 psi	≤0.15
	Permanent Linear Change, %: 2910°F (1600°C) & 5 Hours	-1.2 - -0.8
	Carbon Monoxide Disintegration: 200 Hours	Unaffected

CHEMICAL ANALYSIS (Ignited)	Al ₂ O ₃	48.9%
	SiO ₂	47.9
	Fe ₂ O ₃	1.1
	TiO ₂	1.6
	CaO	0.2
	MgO	0.1
	Alkalies	0.2

The properties shown on this data sheet represent typical average results generated using standard ASTM test methods (unless otherwise noted) conducted under controlled condition (using standard rectangular shapes), and should not be considered to be guaranteed specifications. Properties are subject to normal manufacturing statistical standard deviation ranges, and Resco Products, Inc. reserves the right to modify the properties and specifications at any time without prior notice.

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