

RANDALUSITE PRODUCT DATA

Description:

Randalusite is a product mined and processed in South Africa by Damrec. This product is then sized at *C-E Minerals Processing*, Newell, West Virginia. Randalusite exhibits excellent creep resistance, corrosion and slag resistance, hot load resistance and dimensional stability.

Applications:

Randalusite is used in a number of refractory applications including anode baking furnace (aluminum), linings of rotary kilns, for runners, feeders and regenerators in glass making, hot blast stove checkers and blast furnace bottom blocks.

Typical Size Distribution (% Retained):

USS Sieve mm Grade	0.265" 6.70	4 4.75	6 3.35	7 2.80	10 2.00	12 1.70	18 1.00	20 850 µm	30 600 µm	40 425 µm	70 212 µm	100 150 µm	140 106 µm	PAN*
3 x 7	0-5	15-30	45-65	5-15										0-5
8F			0.5			10-20		15-35		10-20	15-25			10-30
7 x 18			0.5		25-45		45-65		0-10					0-10
18F							0-5		20-40				45-65	0-10

*PAN designates the percentage of material passing the last reported screen for each size

Chemical Analysis (%): Typical

Al ₂ O ₃	59.5
SiO ₂	38.3
Fe ₂ O ₃	0.85
TiO ₂	0.15
CaO	0.05
MgO	0.15
Na ₂ O	0.20
K ₂ O	0.17
L.O.I.	0.5

Physical Properties:

Bulk Density (g/cc)	1.64
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8/1/09