

PRODUCT DATA

HIGH DUTY FIREBRICK GROG

ALSEY High Duty Firebrick Grog

Description:

Crushed high duty dry pressed firebrick

Sizes:

- 10 mesh & down 50lb sacks {4GR110}
- 20 mesh & down 50lb sacks {4GR120}
- 30 mesh & down 50lb sacks {4GR130}

SCREEN ANALYSIS

Retained upon:	10 Mesh		20 Mesh		30 Mesh	
	Individual % Retained	Cumulative % Retained	Individual % Retained	Cumulative % Retained	Individual % Retained	Cumulative % Retained
US 4	0%	0%	--	0%	--	0%
US 6	0%	0%	--	0%	--	0%
US 8	.1%	.1%	--	0%	--	0%
US 10	1%	1.1%	--	0%	--	0%
US 18	--	1.1%	.1%	.1%	0%	0%
US 20	33.7%	34.8%	3.7%	3.8%	0%	0%
US 30	14.6%	49.4%	18.1%	21.9%	2.7%	2.7%
US 40	12.4%	61.7%	--	21.9%	--	2.7%
US 50	8.9%	70.7%	33.7%	55.6%	40.2%	42.9%
US 70	9.6%	80.3%	13.8%	69.4%	18.3%	61.2%
US 100	--	80.3%	10.1%	79.5%	13.4%	74.6%
US 200	--	80.3%	12.3%	91.8%	15.9%	90.5%
US 270	--	80.3%	4%	95.8%	4.7%	95.2%
Pan	19.7%	100%	4.2%	100%	4.8%	100%

TYPICAL TEST DATA -- PHYSICAL PROPERTIES

ASTM C-24

P.C.E. 32-32½
 Temperature Equivalent (melting), °F 3123-3135
 Service Temperature (max. recommended), °F 2850

ASTM C-20

Apparent Porosity, % 19.1
 Apparent Specific Gravity, g/cc 2.68
 Water Absorption, % 8.8

TYPICAL CHEMICAL ANALYSIS, Wt. % (calcined basis)

Silica (SiO₂) 56.32
 Aluminum Oxide (Al₂O₃) 37.63
 Iron Oxide (Fe₂O₃) 1.74
 Titanium Dioxide (TiO₂) 2.01
 Potassium Oxide (K₂O) 1.25
 Magnesium Oxide (MgO) 0.38
 Sodium Oxide (Na₂O) 0.07
 Phosphorous Pentoxide (P₂O₅) 0.09
 Other Oxides 0.51
 Total 100.00

Loss on Ignition, 1000°C 0.12

An MSDS is available upon request

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The above properties represent average results of typical data produced from standard ASTM test methods. Specifications should not be considered guaranteed. Alsey Refractories Company makes every effort to ensure consistency in our products; however, properties may vary due to standard statistical manufacturing deviations. Alsey Refractories Company reserves the right to modify this data at any time without prior notice.