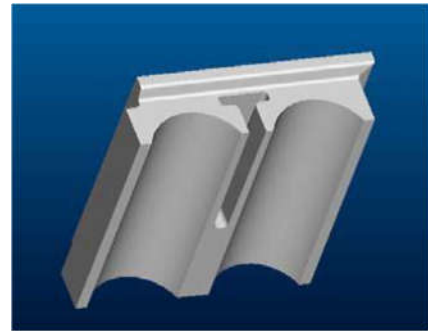


LS series

Waste-to-Energy Incinerator Linings

LS-75S



		Guaranteed Value	Typical Value	Std. Deviation
Bulk Density: <i>ISO 5017</i>	..... g/cm ³	≥ 2.65	2.72	0.04
	..... bs/cu.ft.	165	170	2.5
Open Porosity: <i>ISO 5017</i>	..... %	≤ 14	12.4	1.3
Cold Crushing Strength: <i>ISO 10059/1-92</i>	..... MPa	≥ 150	180	15
	..... psi	≥ 21756	26107	2176
Modulus of Rupture: <i>ISO 5014</i>	@ 20°C - 950°C..... MPa	≥ 40	50	5
	@ 68°F - 1742°F psi	5802	7252	725
Thermal conductivity: <i>Laser flash method</i>	@ 1000°C..... W/m.K	≥ 15	16.8	1.3
Abrasion resistance <i>ASTM C704</i>	Volume loss..... cm ³	≤ 5	4.2	0.5
Oxidation Resistance: <i>ASTM C863</i>	Volume expansion..... %	≤ 1.0	0.8	0.2
Chemical Composition: <i>ISO 21068</i>	SiC..... %	≥ 70	73.0	0.7
	Si ₃ N ₄ + Si ₂ N ₂ O %	≥ 15	19	0.5

LS-75S have special ingredients (additives) and are double-fired.
Oxidation resistance is conducted under steam atmosphere at 1000°C and evaluated by volume expansion.

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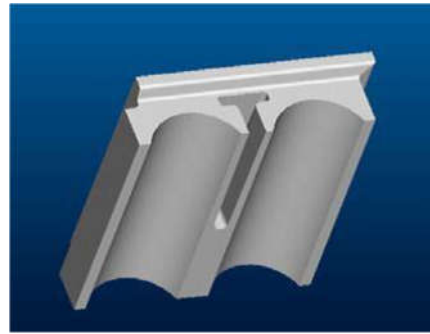
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LS series

Waste-to-Energy Incinerator Linings

LS-85S



		Guaranteed Value	Typical Value	Std. Deviation
Bulk Density: <i>ISO 5017</i>	..... g/cm ³	≥ 2.65	2.72	0.04
	..... bs/cu.ft.	165	170	2.5
Open Porosity: <i>ISO 5017</i>	..... %	≤ 14	12.4	1.3
Cold Crushing Strength: <i>ISO 10059/1-92</i>	..... MPa	≥ 150	175	15
	..... psi	≥ 21756	25382	2176
Modulus of Rupture: <i>ISO 5014</i>	@ 20°C - 950°C..... MPa	≥ 40	48	5
	@ 68°F - 1742°F psi	≥ 5802	6962	725
Thermal conductivity: <i>Laser flash method</i>	@ 1000°C..... W/m.K	≥ 17	18	1.5
Abrasion resistance <i>ASTM C704</i>	Volume loss..... cm ³	≤ 5	4.2	0.5
Oxidation Resistance: <i>ASTM C863</i>	Volume expansion..... %	≤ 1.0	0.85	0.2
Chemical Composition: <i>ISO 21068</i>	SiC..... %	≥ 78	81.5	0.7
	Si ₃ N ₄ + Si ₂ N ₂ O %	≥ 8	11	0.5

LS-75S have special ingredients (additives) and are double-fired.
Oxidation resistance is conducted under steam atmosphere at 1000°C and evaluated by volume expansion.

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