TECHNICAL DATA SHEET

Sintered Spinel

Description: Magnesia-alumina spinel is produced by calcining industrial alumina or premium natural bauxite with high-purity lightly calcined magnesia in an ultra-high-temperature rotary kiln. It features high hardness, a high melting point, and a low thermal-expansion coefficient. It is an ideal raw material for ladle castables and periclase-spinel bricks, and is widely used in medium- and large-scale rotary kilns, glass furnaces, open-hearth furnaces, and steel-ladle linings.

Chemical Composition (%)

Parameter	Req.	SS90	SS78	SS-66A	SS-66B	SS-58
Al_2O_3		88–91	76–79	64–67	64–66	58–62
SiO_2	≤	0.2	0.3	0.4	4.0	3.5
Fe_2O_3	≤	0.3	0.3	0.3	1.5	1.5
MgO		8–11	21–24	32–35	24–26	30–32

Physical Properties

Parameter	SS90	SS78	SS-66A	SS-66B	SS-58
Apparent porosity	3	3	3	5	5
Bulk density	3.30	3.30	3.30	3.10	3.10
Appearance	White	White	Cream-white	Grey-purple	Grey-purple

Product Information

Size	0–1 / 1–3 / 3–6 mm; 6×14 / 14×30 mesh; −40 mesh; −200 / −300 mesh.
Packing	In 1.00 MT, 1.25 MT or 1.35 MT bulk bags; 25/50 kg bags in bulk bags or on wrapped pallets.
Origin	Liaoning Province, China.