



FSG (Slide Gate) Plates and Nozzles

DESCRIPTION: Sliding plates and nozzles made from high-purity raw materials. Featuring high stress and cracking resistance, as well as chemistry designed to resist corrosion, for longer service life.

USES INCLUDE: Sliding gates and nozzles for the control of the flow of molten steel from a ladle and/or tundish. FRC Global custom designs these products for a wide range of systems, applications, and heat sizes.

CHEMICAL ANALYSIS: (TYPICAL CHEMICAL ANALYSIS)

(Approximate %)

	A-RB	H-RB	Z-RB	S-RB	A-TB	S-TB	B-TB	Z-TB	H-MB	H-TB
C	6.0	4.0	6.0	3.0	7.0	5.0	3.0	8.0	4.0	7.0
Al ₂ O ₃	84.0	90.0	75.0	9.0	74.0	11.0	2.7	75.0	90.0	83.0
MgO	Trace	Trace	Trace	80.0	Trace	83.0	94.0	Trace	Trace	Trace
ZrO ₂	Trace	Trace	6.0	Trace	Trace	Trace	Trace	7.0	Trace	Trace

TYPICAL AS RECEIVED PROPERTIES:

	A-RB	H-RB	Z-RB	S-RB	A-TB	S-TB	B-TB	Z-TB	H-MB	H-TB
Apparent Porosity (%)	6.0	8.0	9.0	11.0	10.0	9.0	8.0	5.0	8.0	5.0
Bulk Density (g/cm ³)	120	120	95	100	95	110	84	140	120	100
Cold Crushing Strength (MPa)	3.05	2.94	3.05	3.00	3.02	3.02	3.11	3.15	3.05	3.10

The values reported above are average values derived from production data encompassing many different sizes and shapes. Actual data will vary to a small degree naturally and as a function of size and shape. This form is not intended to be used for purposes of specification; it is informational only.

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