

FSG (Fedmet 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. Fedmet custom designs these products for a wide range of systems, applications, and heat sizes.

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%	4	6	3	7	5	3	8	4	7
Al ₂ O ₃	84%	90	75	9	74	11	2.7	75	90	83
MgO	trace	trace	trace	80	trace	83	94	trace	trace	trace
ZrO ₂	trace	trace	6	trace	trace	trace	trace	7	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	8	9	11	10	9	8	5	8	5
Cold Crushing, Mpa	120	120	95	100	95	110	84	140	120	100
Bulk Density g/cm ³	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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