

AR

Brown Fused Alumina (Al₂O₃) for refractories

AR is a brown fused aluminum oxide obtained from the fusion of high purity bauxites in electric arc furnaces. It presents an excellent cost/benefit relation, being recommended for refractory application where an iron content is not an issue.

General Characteristics

True Specific Gravity	Melting Point	Crystalline Structure	Color
3.94 g/cm ³	2,020 °C	Alpha Alumina	Brown

Typical Chemical Analysis by XRF (%)

Al ₂ O ₃	TiO ₂	SiO ₂	Fe ₂ O ₃	MgO
96.09	1.70	0.90	0.70	0.18

Typical Physical Properties

Apparent Porosity	Apparent Specific Density
3.94%	3,79 g/cm ³

Apparent Porosity and Apparent Specific Density by ASTM Designation C 20-00.

Grit Sizes

Size (astm)	Size (mm)
3/4" / 5/16"	19.1 - 8.00
5/16" / 4	8.00 - 4.75
4 / 10	4.75 - 2.00
10 / 20	2.00 - 850 μm
10 / 40	2.00 - 425 μm
20 / 40	850 - 425 μm
40 / 200	425 - 75 μm
TPF II	- 212 μm
200 MF	- 75 μm
325 MF	- 45 μm

* Other grit sizes upon request.

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