

Ceramic Ball specifications

Inert aluminum Ceramic Balls are available in several specifications. according to the alumina content percent: 17% 25% 65% 95%. Diameter from 3mm to 25mm or bigger on customer request.

Size		Density		Free Space	Specific Surface area	
inches	mm	lbs/ft3	g/cm3	percent	ft2/ft3	m2/m3
1/8	3	90	1.44	38	350	1150
1/4	6	87	1.4	40	160	520
3/8	10	86	1.38	44	120	390
1/2	13	86	1.38	44	80	260
3/4	19	86	1.37	44	50	160
1	25	84	1.34	46	40	130

Chemical Analysis:

SiO₂ -- 65-76%

Al₂O₃ -- >25%

SiO₂ + Al₂O₃ -- >90%

TiO₂ -- 0.5-0.6%

Fe₂O₃ -- <1.0%

Fe leachable -- 0.002%

CaO -- ~0.3%

MgO -- 0.3-0.5%

K₂O -- 1.8-2.5%

Na₂O -- ~0.2%

Physical Properties:

Density: -- 2.30-2.45 g/cm³

Bulk Density -- 1.35-1.44 g/m³

Water absorption: -- 0.30-0.60%

Porosity: -- 0.60-1.10%

Crush strength: -- ~400 N/mm²

H₂SO₄ solubility: -- 0.40%

Mohs Hardness: -- 7-8

Thermal expansion: -- 5.5 x 10⁻⁶ /°C

Catalyst poisons: -- none

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