

Brown Fused Aluminum Oxide

MAXCAL

MAXCAL is a special brown fused aluminum oxide developed for high performance abrasive products. MAXCAL is low titania content product, heat treated in a rotary kiln at high temperatures and magnetic treated. These procedures guarantee low iron content and excellent grit stability.

Types of Treatment

Treatment	Shape
	Block
Not treated	MAXCAL R
Red Coated (RC)*	MAXCALRC R
Silane Treated (ST)*	MAXCALST R

General Characteristics

True Specific Gravity	Hardness (Knoop – 100)	Toughness (ANSI-B74.8R2007)
3.94 g/cm ³	1,900 kgf/cm ²	46%

Chemical Analysis by XRF (%)

AL ₂ O ₃	TiO ₂	SiO ₂	Fe ₂ O ₃	MgO
97.74	1.29	0.51	0.13	0.05

Bulk Density (g/cm³)

Grit Size	R	Grit Size	R
10	1.87 – 1.97	54	1.78 – 1.88
12	1.87 – 1.97	60	1.75 – 1.85
14	1.87 – 1.97	70	1.71 – 1.81
16	1.87 – 1.97	80	1.69 – 1.79
20	1.87 – 1.97	90	1.67 – 1.77
24	1.84 – 1.94	100	1.66 – 1.76
30	1.84 – 1.94	120	1.64 – 1.74
36	1.83 – 1.93	150	1.61 – 1.71
40	1.80 – 1.90	180	1.60 – 1.70
46	1.80 – 1.90	220	1.60 – 1.70

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*Treatment (RC or ST) can affect bulk density by ± 0.05 g/cm³

The values informed above are typical, for further information contact Applications Engineer Department.

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