

## MAXCAL - BROWN ALUMINUM OXIDE

Low Titania Brown Fused Alumina ( $Al_2O_3$ ) for refractory and abrasive

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.

### Typical Physical Properties

True Specific Gravity	Knoop 100 Hardness	Toughness (ANSI-B74.8R2007)
3.94 g/cm <sup>3</sup>	2,100 kg/cm <sup>2</sup>	54%

### Typical Chemical Analysis by XRF (%)

$Al_2O_3$	$TiO_2$	$SiO_2$	$Fe_2O_3$
97.68	1.23	0.52	0.14

### Types of Treatment

Not Treated	Red Coated (RC)*	Silane Treated (ST)*
MAXCAL R	MAXCALRC R	MAXCALST R

### Bulk Density (g/cm<sup>3</sup>)

Grit Size	(R) cubic
10	1.92
12	1.92
14	1.92
16	1.92
20	1.92
22	1.92
24	1.89
30	1.89
36	1.86
40	1.87
46	1.84
54	1.81
60	1.79
70	1.77
80	1.74
90	1.72
100	1.69
120	1.68
150	1.67
180	1.63
220	1.60

FEPA 44 - 1:2006  
 \*Treatment (RC or ST) can affect bulk density by  $\pm 0.05$  g/cm<sup>3</sup>

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