

MAXCAL - BROWN ALUMINUM OXIDE

Low Titania Brown Fused Alumina (Al_2O_3) for coated abrasives

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 ³	2,100 kg/cm ²	54%

Typical Chemical Analysis by XRF (%)

Al ₂ O ₃	TiO ₂	SiO ₂	Fe ₂ O ₃
97.68	1.23	0.52	0.14

Types of Treatment

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

Bulk Density (g/cm³)

Grit Size	(L) sharp
12	1.85
16	1.85
20	1.84
24	1.84
30	1.80
36	1.80
40	1.75
50	1.73
60	1.73
80	1.70
100	1.64
120	1.61
150	1.55
180	1.55
220	1.55

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

The information contained in this data sheet has been determined through the application of accepted engineering practice and is believed to be reliable. Since the conditions of application and use of our products are beyond our control, no warranty is expressed or implied regarding accuracy of the information, the results to be obtained from use of the product, or that such use will not infringe on any patent. This information is furnished with the express condition that you will make your own tests to determine the suitability of the product for your particular use.





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ABOUT:

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TYPICAL CHEMICAL ANALYSIS	
Al ₂ O ₃	97.74%
TiO ₂	1.29
SiO ₂	0.51
Fe ₂ O ₃	0.13
MgO	0.05

TYPICAL PHYSICAL PROPERTIES	
Specific Gravity:	3.94 g/cc
Knoop 100 Hardness:	1900 kg/cm ²
Toughness:	46% (ANSI-B74.8 R2007)

TYPES OF TREATMENT	
Treatment	SHAPE
	Angular
Not Treated	MAXCAL L
Red Coated (RC)*	MAXCALRC L
Silane Treated (ST)*	MAXCALST L

Grit Size	BULK DENSITY (g/cc)		Grit Size	L
	L			
12	1.80 - 1.90		60	1.65 - 1.75
16	1.80 - 1.90		80	1.62 - 1.72
20	1.79 - 1.89		100	1.60 - 1.70
24	1.79 - 1.89		120	1.57 - 1.67
30	1.75 - 1.85		150	1.50 - 1.60
36	1.75 - 1.85		180	1.50 - 1.60
40	1.70 - 1.80		220	1.50 - 1.60
50	1.66 - 1.76			

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