



MAXCAL — BROWN ALUMINUM OXIDE

LOW TITANIA BROWN FUSED ALUMINA (AL₂O₃) FOR BONDED ABRASIVES

ABOUT:

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

BULK DENSITY (g/cc)			
Grit Size	R	Grit Size	R
10	1.87 - 1.97	50	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 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.

USEM

U.S. ELECTROFUSED MINERALS, INC.

600 Steel Street, Aliquippa, PA 15001

Phone: 800-927-8823

email: info@usminerals.com

www.usminerals.com



ELECTRO ABRASIVES

701 Willet Road, Buffalo, NY 14218

Phone: 716-822-2500

Email: info@electroabrasives.com

www.electroabrasives.com



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