



AL — WHITE FUSED ALUMINUM OXIDE

WHITE FUSED ALUMINA (AL₂O₃) FOR COATED ABRASIVES

ABOUT:

AL is a white fused aluminum oxide obtained from the fusion of calcined alumina in electric arc furnaces. AL presents high purity and high capacity of edge reposition. AL is recommended for special applications where contamination is an issue to be considered.

TYPICAL CHEMICAL ANALYSIS	
Al ₂ O ₃	99.42%
Fe ₂ O ₃	0.03
Na ₂ O	0.43

TYPICAL PHYSICAL PROPERTIES	
Crystal Structure:	α-alumina
Knoop 100 Hardness:	1900 kg/cm ²
Toughness:	38% (ANSI-B74.8 R2007)
Specific Gravity:	3.94 g/cc

TYPES OF TREATMENT	
Treatment	SHAPE
	Angular
Not Treated	AL L
Red Coated (RC)*	ALRC L
Silane Treated (ST)*	ALST L

BULK DENSITY (g/cc)			
Grit Size	L	Grit Size	L
12	1.67 - 1.77	60	1.61 - 1.71
16	1.66 - 1.76	80	1.60 - 1.70
20	1.66 - 1.76	100	1.57 - 1.67
24	1.66 - 1.76	120	1.54 - 1.64
30	1.66 - 1.76	150	1.52 - 1.62
36	1.64 - 1.74	180	1.49 - 1.59
40	1.64 - 1.74	220	1.46 - 1.56
50	1.64 - 1.74		

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

USEM

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AL — WHITE FUSED ALUMINUM OXIDE

WHITE FUSED ALUMINA (AL₂O₃) MICROGRITS FOR COATED ABRASIVES

ABOUT:

AL is a white fused aluminum oxide obtained from the fusion of calcined alumina in electric arc furnaces. AL presents high purity and high capacity of edge reposition. AL is recommended for special applications where contamination is an issue to be considered.

TYPICAL CHEMICAL ANALYSIS

Al ₂ O ₃	99.16%
Fe ₂ O ₃	0.08
Na ₂ O	0.59

TYPICAL PHYSICAL PROPERTIES

Crystal Structure:	α-alumina
Knoop 100 Hardness:	1900 kg/cm ²
Specific Gravity:	3.94 g/cc

GRIT SIZE SPECIFICATIONS

Grit	Ds 0 (µm) Maximum	Ds 3 (µm) Maximum	Ds 50 (µm)		Ds 94 (µm) Minimum
			Minimum	Maximum	
F240	110.0	81.7	56.5	60.5	44.5
F280	101.0	74.0	50.2	54.2	39.2
F320	94.0	66.8	44.7	47.7	34.2
F360	87.0	60.3	39.0	42.0	29.6
F400	81.0	53.9	33.5	36.5	25.2
F500	77.0	48.3	28.7	31.7	21.5
F600	72.0	43.0	24.8	26.8	18.0
F800	67.0	38.1	20.8	22.8	15.1

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*Other grit sizes available upon request



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