

AL — WHITE FUSED ALUMINUM OXIDE

WHITE FUSED ALUMINA (AL $_2$ D $_3$) FOR BONDED 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:	lpha-alumina	
Knoop 100 Hardness:	1900 kg/cm ²	
Toughness:	38% (ANSI-B74.8 R2007)	
Specific Gravity:	3.94 g/cc	

TYPES OF TREATMENT			
_ SHAPE			
Treatment	Block	Super Block	
Not Treated	AL R	ALHD R	
Red Coated (RC)*	ALRC R	ALHDRC R	
Silane Treated (ST)*	ALST R	ALHDST R	

BULK DENSITY (g/cc)					
Grit Size	R	HD	Grit Size	R	HD
10	1.74 - 1.84	1.81 - 1.91	50	1.68 - 1.78	1.75 - 1.85
12	1.74 - 1.84	1.81 - 1.91	60	1.67 - 1.77	1.73 - 1.83
14	1.74 - 1.84	1.81 - 1.91	70	1.62 - 1.72	1.73 - 1.83
16	1.73 - 1.83	1.80 - 1.90	80	1.61 - 1.71	1.73 - 1.83
20	1.72 - 1.82	1.79 - 1.89	90	1.58 - 1.68	1.69 - 1.79
24	1.72 - 1.82	1.79 - 1.89	100	1.57 - 1.67	1.73 - 1.83
30	1.72 - 1.82	1.79 - 1.89	120	1.55 - 1.65	1.73 - 1.83
36	1.71 - 1.81	1.78 - 1.88	150	1.52 - 1.62	1.70 - 1.80
40	1.70 - 1.80	1.77 - 1.87	180	1.52 - 1.62	1.70 - 1.80
46	1.70 - 1.80	1.77 - 1.87	220	1.48 - 1.58	1.70 - 1.80
FEPA 44 - 1:2006					
*Treatment (RC or ST) can affect bulk density by ± 0.05 g/cm ³					

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600 Steel Street, Aliquippa, PA 15001

Phone: 800-927-8823 email: <u>info@usminerals.com</u> <u>www.usminerals.com</u>



701 Willet Road, Buffalo, NY 14218

Phone: 716-822-2500

Email: info@electroabrasives.com www.electroabrasives.com



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Updated: 04/13



AL — WHITE FUSED ALUMINUM OXIDE

WHITE FUSED ALUMINA (AL $_2$ O $_3$) MICROGRITS FOR BONDED ABRASIVES

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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:	lpha-alumina	
Knoop 100 Hardness:	1900 kg/cm²	
Specific Gravity:	3.94 g/cc	

GRIT SIZE SPECIFICATIONS				
.	Ds3	Ds50		Ds94
Grit	Maximum	M inimum	M aximum	Minimum
F230	82.0	50.0	56.0	34.0
F240	70.0	42.5	46.5	28.0
F280	59.0	35.0	38.0	22.0
F320	49.0	27.7	30.7	16.5
F360	40.0	21.3	24.3	12.0
F400	32.0	16.30	18.30	8.0
F500	25.0	11.8	13.8	5.0
F600	19.0	8.3	10.3	3.0
F800	14.0	5.5	7.5	2.0
F1000	10.0	3.7	5.3	1.0
F1200	7.0	2.5	3.5	1.0
FEPA 42 - 2:2006				
*Other grit sizes available upon request				



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