AL – White Fused Aluminum Oxide

WHITE FUSED ALUMINA (AL_2O_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_2O_3	99.42%
Fe_2O_3	0.03
Na_2O	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***	
	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

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*Treatment (RC or ST) can affect bulk density by ± 0.05 g/cm^3

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AL – White Fused Aluminum Oxide

WHITE FUSED ALUMINA (AL_2O_3) MICROGRITS 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_2O_3	99.16%
Fe_2O_3	0.08
Na_2O	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	Ds3 Maximum	Ds50 Minimum	Ds50 Maximum	Ds94 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

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*Other grit sizes available upon request

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