

SFAR — Brown Aluminum Oxide

SEMI-FRIABLE BROWN FUSED ALUMINA (AL₂O₃) FOR COATED ABRASIVES

ABOUT:

SFAR is a semi-friable brown fused aluminum oxide obtained from the fusion of high purity bauxites in electric arc furnaces. In order to improve its quality this material is calcined and present low dust content. It is recommended for high performance coated abrasives.

TYPICAL CHEMICAL ANALYSIS		
Al ₂ O ₃	97.64%	
TiO ₂	1.43	
SiO ₂	0.53	
Fe ₂ O ₃	0.12	

TYPICAL PHYSICAL PROPERTIES		
Specific Gravity:	4.01 g/cc	
Knoop 100 Hardness:	1900 kg/cm ²	
Toughness:	42% (ANSI-B74.8 R2007)	

TYPES OF TREATMENT		
_	SHAPE	
Treatment	Angular	
Not Treated	SFAR L	
Red Coated (RC)*	SFARRC L	
Silane Treated (ST)*	SFARST L	

BULK DENSITY (glcc)						
Grit Size	Grit Size L Grit Size L					
12	1.74 - 1.84	60	1.64 - 1.74			
16	1.74 - 1.84	80	1.60 - 1.70			
20	1.74 - 1.84	100	1.55 - 1.65			
24	1.72 - 1.82	120	1.54 - 1.64			
30	1.70 - 1.80	150	1.54 - 1.64			
36	1.69 - 1.79	180	1.52 - 1.62			
40	1.68 - 1.78	220	1.48 - 1.58			
50	1.67 - 1.77					
FEPA 44 - 1:2006						

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

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GRUPO CURIMBABA

Updated: 04/13



SFAR — Brown Aluminum Oxide

SEMI-FRIABLE BROWN FUSED ALUMINA (AL₂O₃) MICROGRITS FOR COATED ABRASIVES

ABOUT:

SFAR is a semi-friable brown fused aluminum oxide obtained from the fusion of high purity bauxites in electric arc furnaces. SFAR presents good toughness and excellent abrasion properties. It is recommended for high performance coated abrasives.

TYPICAL CHEMICAL ANALYSIS		
Al ₂ O ₃	96.79%	
TiO ₂	1.94	
SiO ₂	0.51	
Fe ₂ O ₃	0.25	
MgO	0.16	

TYPICAL PHYSICAL PROPERTIES		
Specific Gravity:	4.05 g/cc	
Knoop 100 Hardness:	1900 kg/cm ²	
Crystalline Structure:	lpha - Alumina	

GRIT SIZE SPECIFICATIONS					
	Ds 0 (µm)	Ds 3 (µm)) Ds 50 (μm)		Ds 94 (µm)
Grit	Maximum	Maximum	Minimum	Maximum	Minimum
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
FEPA 43 - 2:2006					

*Other grit sizes available upon request



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