TECHNICAL DATASHEET

AFTAB
آفتاب تجارت امن بین‌الملل

Calcined Alumina for Refractory Industry

AFTAB COMPANY offers a wide range of calcined alumina used in refractory industry. These products are classified according to their calcination degree, soda content and grinding mechanism. Considering calcination degree, they are classified as Hard and Medium Calcined.
The soda content of calcined alumina is precisely controlled in order to achieve higher refractoriness and improved high temperature mechanical properties. The soda content is classified as Normal Soda, Medium Soda, Low Soda and Ultra Low Soda. Depending on final usage, calcined alumina is used unground or ground. During milling, particles are disintegrated into single crystals and agglomerates containing several crystals.

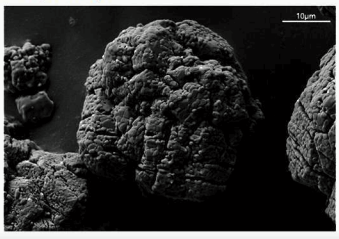
Applications

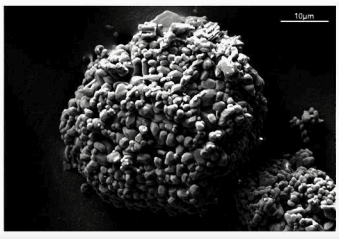
Shaped refractory such as high alumina bricks, electrofused bricks, sliding gate plates, kiln furnitures, etc.
Unshaped refractory including castables, gunning mixes, mortar refractory cements, ceramic fibers, etc.

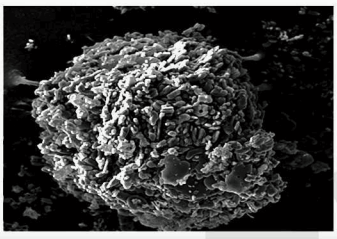
Chemical Analysis and Physical Specifications

	Typical Values [1]	Hard Calcined						Medium Calcined		
		Unground			Ground [2]			Unground		Ground [2]
		Normal Soda	Medium Soda	Low Soda	Normal Soda	Medium Soda	Low Soda	Normal Soda		
Physical Properties	**Unit**	**AH200**	**AH210**	**AH220**	**AH202-45**	**AH212-45**	**AH222-45**	**AM100**	**AM700**	**AM702-45**
BET	m^2/g	1-2	1-2	1-2	1-2	1-2	1-2	2-3	9-15	9-15
D_{50}	µm	75	75	75	6	6	6	80	80	6
Screen Residue >45 µm	%	-	-	-	<2	<2	<2	-	-	<2
Chemical Properties										
Alpha Alumina Content	%	≈95	≈95	≈95	≈95	≈95	≈95	≈93	≈75	≈75
Al_2O_3	%	99.6	99.7	99.7	99.6	99.7	99.7	99.6	99.6	99.6
Na_2O	ppm	3500	2500	1500 [3]	3500	2500	1500 [3]	3500	3500	3500
CaO	ppm	150	150	150	150	150	150	150	150	150
SiO_2	ppm	100	550	850	100	550	850	100	100	100
Fe_2O_3	ppm	115	115	115	115	115	115	115	115	115

[1] For allowable range of properties refer to datasheets
[2] Also available in narrower particle size distribution and lower top cuts
[3] Also available in ultra low soda values (≤1500)







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