TECHNICAL DATASHEET

AFTAB
آفتاب تجارت امن بین‌الملل

Reactive Alumina for Refractory Industry

AFTAB COMPANY offers a wide range of reactive alumina used in refractory industry. Reactive aluminas are specially designed for the production of high performance refractories where defined particle packing, rheology and consistent placement characteristics are as important as the superior physical properties of the final product. Reactive aluminas are batch ground down to their constituent crystal size. Reactive alumina is used in castable matrix, providing lower water demand and regulating rheology by controlling particle size distribution. Otherwise, high mixing water may be required and the product may suffer from inadequate physical properties or water and aggregate separation after casting.

Applications

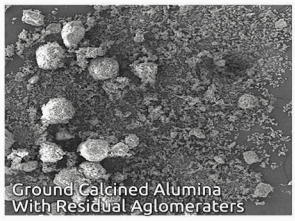
Low, ultra-low and No cement castables Gunning and shotcrete mixes Nozzles, lances, purging sets, sleeves High performance bricks and sliding gate plates

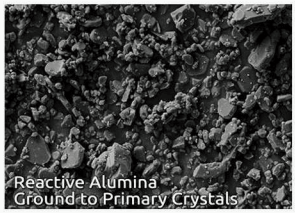
Chemical Analysis and Physical Specifications

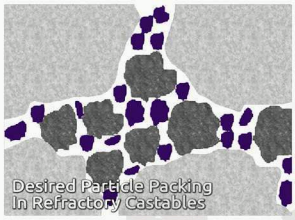
	Typical Values[1]	Hard Calcined	Medium Calcined		Hard Calcined	Medium Calcined	
		Normal Soda			Low Soda		
Physical Properties	**Unit**	AH201	AM101	AM301	AH221	AM121	AM321
BET	m^2/g	1-2	2-3	3-5	1-2	2-3	3-5
D_{50}	µm	1.7	1.7	2	1.7	1.7	2
D_{90}	µm	4	4	4.5	4	4	4.5
Chemical Properties							
Alpha Alumina Content	%	≈95	≈93	≈90	≈95	≈93	≈90
Al_2O_3	%	99.7	99.7	99.7	99.7	99.7	99.7
Na_2O	ppm	3500	3500	3500	1500 [2]	1500 [2]	1500 [2]
CaO	ppm	150	150	150	150	150	150
SiO_2	ppm	100	100	100	850	850	850
Fe_2O_3	ppm	115	115	115	115	115	115

[1] For allowable range of properties refer to datasheets

[2] Also available in ultra low soda values (≤1500)


Ground Calcined Alumina With Residual Aglomeraters


Reactive Alumina Ground to Primary Crystals


Desired Particle Packing In Refractory Castables

Unit3, No.119, Kausar building, Jamalzadeh St., Keshavarz Blv., Tehran, Iran
info@aftabtrade.com
www.aftabtrade.com
+989224538003
+989125267996
+982166907325