



Specification

Item : White Fused Alumina (DWRH)

2020. 05. 14

1. Chemical & Physical Properties

Item	Chemical Properties (XRF)					Physical Properties (6-10mesh)	
	Al ₂ O ₃	Fe ₂ O ₃	SiO ₂	CaO	Na ₂ O	Porosity (%)	Bulk Density (g/cm ³)
Specification (%)	99.30min	0.10max	0.10max	0.07max	0.40max	-	-
Typical(%)	99.64	0.02	0.01	0.02	0.25	5.65	3.62

2. Size Distributions

Size	unit	Certified value		Typical Value				
20-10mm	mm	+19.0	-9.5	+19.0	-9.50			
	%	10max	10max	0-10	0-10			
8-5mm	mm	+8.00	-4.00	+8.00	8.00/6.70	6.70/5.60	5.60/4.00	-4.00
	%	10max	7max	0-7	5-20	25-45	40-65	0-7
6-3mm	mm	+5.60	-2.80	+6.70	+5.60	5.60/4.00	4.00/2.80	-2.80
	%	10-30	5max	0-5	10-30	40-60	20-40	0-5
5-3mm	mm	+4.75	-2.80	+4.75	4.75/3.35	3.35/2.80	-2.80	
	%	10max	8max	0-10	50-80	10-30	0-8	
3-1mm	mm	+3.35	3.35-1.00	+3.35	3.35/2.00	2.00/1.00	-3.35/+1.00	-1.00
	%	5max	85 min	0-5	30-50	40-60	85-98	0-5
1-0mm	mm	+1.00	-0.212	+1.00	1.00/0.50	0.50/0.212	-0.212	
	%	5max	35max	0-5	30-50	25-45	0-35	
1-0.5mm	mm	+1.00	-0.50	+1.00	1.00/0.71	0.71/0.50	-0.50	
	%	5max	10max	0-5	35-55	40-60	0-10	
0.5-0.212mm	mm	+0.50	-0.212	+0.50	0.50/0.212	-0.212		
	%	5max	10max	0-5	85-95	0-10		
0.5-0mm	mm	+0.50	-0.075	+0.50	0.50/0.212	0.212/0.075	-0.075	
	%	5max	20max	0-5	40-60	30-50	0-20	
0.3-0mm	mm	+0.30	-0.075	+0.30	0.30/0.212	0.212/0.125	0.125/0.075	-0.075
	%	5max	10-40	0-5	15-30	20-40	15-30	15-35
220mesh	mm	+0.30	-0.075	+0.30	0.30/0.075	-0.075		
	%	5 max	65-85	0-5	10-30	65-85		
325mesh	mm	+0.045	-0.045	+0.045	-0.045			
	%	5 max	95 min	0-5	95-100			

Approved by Hongsung, Kim

※ Other sizes are available upon request.

Issued by Producer Daehan Ceramics Co., Ltd



Tabular Alumina STA Series

Partical Size Distribution- Standard (m/m)

Size	unit	Certified Value		Typical Value				
20-10mm	mm	+22.40	-9.50	+22.40	22.40-9.50	-9.50	-	-
	%	10max	10 max	0-10	90-98	0-10	-	-
8-5mm	mm	+8.00	-4.00	+8.00	8.00/6.70	6.70/5.60	5.60/4.00	-4.00
	%	10max	7 max	0-10	5-25	30-50	30-55	0-5
6-3mm	mm	+5.60	-2.80	+6.70	+5.60	5.60/4.00	4.00/2.80	-2.80
	%	10-30	5 max	0-2	10-30	40-60	15-30	0-5
5-3mm	mm	+4.75	-2.80	+4.75	4.75/3.35	3.35/2.80	-2.80	-
	%	10 max	8 max	0-10	60-80	10-30	0-8	-
5-2mm	mm	+4.75	-2.00	+4.75	4.75/3.35	3.35/2.00	-2.00	-
	%	10 max	8 max	0-10	40-60	30-50	0-8	-
3-2mm	mm	+3.35	-3.35/+2.00	+3.35	3.35/2.80	2.80/2.00	-3.35/+2.00	-2.00
	%	5 max	85min	0-5	20-40	55-75	85-99	0-10
3-1mm	mm	+3.35	-3.35/+1.00	+3.35	3.35/2.00	2.00/1.00	-3.35/+1.00	-1.00
	%	5 max	85min	0-5	40-60	30-50	85-99	0-10
2-1mm	mm	+2.36	-0.85	+2.36	2.36/1.70	1.70/1.18	1.18/0.85	-0.85
	%	5max	5max	0-5	30-60	30-60	5-15	0-5
1-0mm	mm	+1.00	-0.212	+1.00	1.00/0.50	0.50/0.212	-0.212	-
	%	5max	35max	0-5	30-50	25-45	10-35	-
1-0.5mm	mm	+1.00	-0.50	+1.00	1.00/0.71	0.71/0.50	-0.50	-
	%	5max	10max	0-5	30-50	40-60	0-10	-
0.6-0.2mm	mm	+0.60	-0.212	+0.60	0.60/0.425	0.425/0.212	-0.212	-
	%	5max	10max	0-5	40-60	30-50	0-10	-
0.5-0mm	mm	+0.60	-0.045	+0.60	0.60/0.30	0.30/0.15	0.15/0.045	-0.045
	%	5max	10max	0-5	20-40	20-40	20-40	0-10
0.3-0mm	mm	+0.30	-0.045	+0.30	0.30/0.106	0.106/0.045	-0.045	-
	%	5max	30max	0-5	20-40	40-60	10-30	-
0.2-0mm	mm	+0.212	-0.045	+0.212	0.212/0.106	0.106/0.045	-0.045	-
	%	5max	40max	0-5	10-30	50-70	20-40	-
220mesh	mm	+0.30	-0.075	+0.30	0.30/0.075	-0.075	-	-
	%	5max	65 - 85	0-5	15-30	65-85	-	-
325mesh	mm	+0.045	-0.045	+0.045	-0.045			
	%	5max	95min	0-5	95-100			
0.02-0mm	mm	+0.020	-0.020	+0.020	-0.020	d50		
	%	7 max	93min	0-7	93-100			





Tabular Alumina STA Series

Partical Size Distribution- Standard (mesh)

Size	unit	Certified Value		Typical Value				
3-6mesh	mm	+6.70	-2.80	+6.70	+6.75/4.75	4.75/4.00	4.00/2.80	-2.80
	%	3max	5 max	0-3	30-50	20-40	20-40	0-5
1/4"-8mesh	mm	+5.60	-2.36	+5.60	5.60/4.75	4.75/3.35	3.35/2.36	-2.36
	%	15-30	5max	15-30	20-40	35-55	5-15	0-5
6-14mesh	mm	+3.35	-1.18	+3.35	3.35/2.00	2.00/1.18	-1.18	-
	%	5 max	10max	0-5	40-60	30-50	0-10	-
8-14mesh	mm	+2.36	-1.18	+2.36	2.36/1.70	1.70/1.18	-1.18	-
	%	5max	10max	0-5	30-50	40-60	0-10	-
14-28mesh	mm	+1.18	-0.60	+1.18	1.18/0.85	0.85/0.60	-0.60	-
	%	5max	10max	0-5	50-80	15-35	0-10	-
28-48mesh	mm	+0.60	-0.30	+0.60	0.60/0.425	0.425/0.30	-0.30	-
	%	5max	10max	0-5	40-60	30-50	0-10	-
-14mesh	mm	+1.18	-0.106	+1.18	1.18/0.50	0.50/0.106	-0.106	-
	%	5max	25max	0-5	30-50	35-55	10-25	-
-28mesh	mm	+0.60	-0.045	+0.60	0.60/0.25	0.25/0.045	-0.045	-
	%	5max	20max	0-5	40-60	30-50	5-20	-
-48mesh	mm	+0.30	-0.045	+0.30	0.30/0.106	0.106/0.045	-0.045	-
	%	5max	30max	0-5	10-30	50-70	10-30	-
-60mesh	mm	+0.212	-0.045	+0.212	0.212/0.106	0.106/0.045	-0.045	-
	%	5max	40max	0-5	10-30	50-70	20-40	-
220mesh	mm	+0.30	-0.075	+0.30	0.30/0.075	-0.075	-	-
	%	5max	65 - 85	0-5	15-30	65-85	-	-
325mesh	mm	+0.045	-0.045	+0.045	-0.045	-	-	-
	%	5max	95min	0-5	95-100	-	-	-

