

Product Databook(Excerpt)

□ Aluminum Hydroxide



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- <Important Notice for Users of this Databook>

 All data in this data book is typical and not guaranteed. The typical properties of all the listed products in this databook are subject to change without prior notice due to continual improvements.
- Applications mentioned in this databook are examples without any guarantee. Fitness for any particular purpose should be verified by customers. (2)
- (3) Please refrain from using products in this databook for medical and food applications.

1. Aluminum Hydroxide

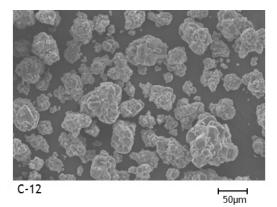
Sumitomo Aluminum Hydroxides product portfolio is quite wide to serve diverse industries. Our precipitation process in Bayer Process enables us to fine-tune particle sizes and impurity levels to serve various industries.

Generic Grade

Typical F	C-12		
c	H2O	[%]	9
itio	Al(OH)3*	[%]	99.8
imi	Fe2O3*	[%]	0.01
Chemical Composition	SiO2*	[%]	0.01
č	Na2O*	[%]	0.18
Loose Bu	lk Density	[g/cm3]	1.1
Packed B	Bulk Density	[g/cm3]	1.4
True Spe	cific Gravity		2.42
D50(MT-3300, Laser Diffraction) [µm]			50
+75µm [%]			5
Packing	Packing Big Bag		

*Analysis after dried. Calculated as oxide after analyzing Fe, Si, Na contents. Al(OH)3 = 100 - (Fe2O3+SiO2+Na2O)

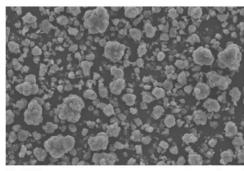
C-12 : Extremely low impurity concentration and small particle size. Excellent reactivity.



Fine, Very Fine, Low-Soda

		Product	Fine		Very Fine	Low Soda		
Typical Properties		C-310	C-305	C-301N	CL-310	CL-303	C-302A	
Chemical Composition	H2O	[%]	0.05	0.07	0.2	0.04	0.07	0.12
	Al(OH)3*	[%]	99.8	99.8	99.8	99.9	99.9	99.8
	Fe2O3*	[%]	0.01	0.01	0.01	0.01	0.01	0.01
j r	SiO2*	[%]	0.01	0.01	0.01	0.01	0.01	0.01
Ŭ	Na2O*	[%]	0.12	0.12	0.2	0.07	0.04	0.11
D50(MT-3300, Laser Diffraction)		[µm]	10	5.5	1.5	12	4	2.4
+45µm		[%]	<0.1	<0.1	<0.1	0.3	<0.1	<0.1
Loose Bulk Density		[g/cm3]	0.7	0.5	0.3	0.7	0.6	0.4
Packed Bulk Density		[g/cm3]	1.3	1.2	0.6	1.3	1.2	0.9
DOA Oil Absorption		[ml/100g]	35	31	54	34	39	39
Whiteness		[%]	•	95	96	92	-	96
BET Spec	ific Surface Area	[m2/g]	1.0	1.5	4	1.1	1.5	2.5
Electric (Conductivity**	[µS/cm]	•	-	-	18	20	100
True Specific Gravity			2.42					
Refractive Index			1.57					
Hardness		[Mohs]	3					
Packing	Big Bag		500kg, 1,000kg					
	Paper Bag		25kg					

*Analysis after dried. Calculated as oxide after analyzing Fe, Si, Na contents. Al(OH)3 = 100 - (Fe2O3+SiO2+Na2O)



C-301N

20µm

CL-303 4µm

20µm Page 2 of 17

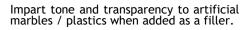
High Whiteness

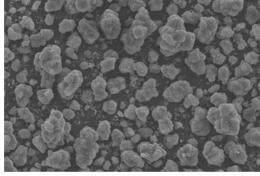
		Product	CW-350	CW-308	
Typical Properties			CW-330	CW-300	
c	H2O	[%]	0.03	0.06	
itio	Al(OH)3*	[%]	99.9	99.8	
in so	Fe2O3*	[%]	0.01	0.01	
Chemical Composition	SiO2*	[%]	0.01	0.01	
Ŭ	Na2O*	[%]	0.06	0.17	
D50(MT-33	00, Laser Diffraction)	[µm]	43	10	
+45µm		[%]	-	<0.1	
Loose Bulk Density		[g/cm3]	1.0	0.6	
Packed Bulk Density		[g/cm3]	1.4	1.3	
DOA Oil Absorption		[ml/100g]	29	34	
True Specif	ic Gravity		2.42		
Refractive	Index		1.57		
Hardness		[Mohs]	3		
De alvie e	Big Bag		500kg, 1,000kg		
Packing	Paper Bag	-	25kg		

*Analysis after dried. Calculated as oxide after analyzing Fe, Si, Na contents. Al(OH)3 = 100 - (Fe2O3+SiO2+Na2O)

High Whiteness (Surface Treated)

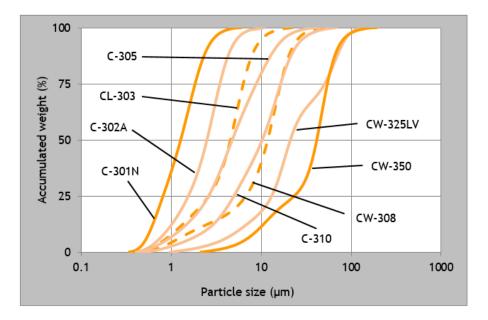
	•	,			
Typical Pro	operties	Product	CW-350B	CWL-325J	CW-308B
c	H2O	[%]	0.03	0.05	0.05
Chemical Composition	Al(OH)3*	[%]	99.9	99.7	99.7
in so	Fe2O3*	[%]	0.01	0.01	0.01
j č	SiO2*	[%]	0.04	0.15	0.12
ŭ	Na2O*	[%]	0.05	0.07	0.15
D50(MT-3300, Laser Diffraction) [µm]		[µm]	51	20	10
DOA Oil Absorption		[ml/100g]	28	22	32
True Spec	ific Gravity		2.42		
Refractive Index			1.57		
Hardness [Mohs]		[Mohs]	3		
Deaking	Big Bag		500kg, 1,000kg		
Packing	Paper Bag		- 25kg		





CW-308

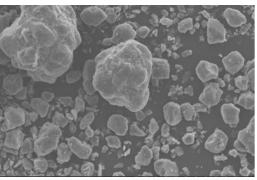
20µm



Low Viscosity

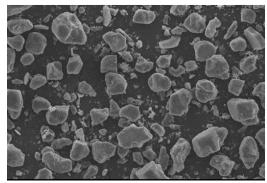
Product Typical Properties			CW-325LV	CW-320LV	CW-310LV	
c	H2O	[%]	0.04	0.04	0.05	
cal itio	Al(OH)3*	[%]	99.9	99.9	99.9	
Chemical	Fe2O3*	[%]	0.01	0.01	0.01	
Chemical Composition	SiO2*	[%]	0.00	0.00	0.00	
Ŭ	Na2O*	[%]	0.07	0.08	0.06	
D50(MT-3300, Laser Diffraction)		[µm]	21	17	10	
+45µm		[%]	-	-	-	
BET Specific Surface Area		[m2/g]	0.8	1.1	1.7	
Electric Conductivity		[µS/cm]	20	20	20	
Loose Bulk Density		[g/cm3]	1.0	0.8	0.7	
Packed Bulk Density		[g/cm3]	1.4	1.5	1.4	
DOA Oil Absorption		[ml/100g]	24	27	28	
True Specif	ic Gravity		2.42			
Refractive Index			1.57			
Hardness		[Mohs]	3			
Packing	Big Bag		1,000kg			
Facking	Paper Bag		25kg			

*Analysis after dried. Calculated as oxide after analyzing Fe, Si, Na contents. Al(OH)3 = 100 - (Fe2O3+SiO2+Na2O)

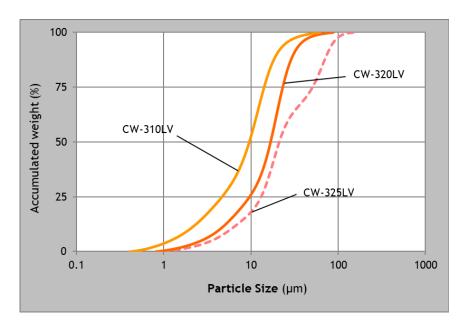


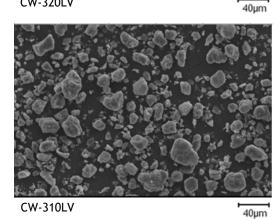
CW-325LV

40µm



CW-320LV





Click the movie to learn viscosity performance difference between each product. <Test Conditions>

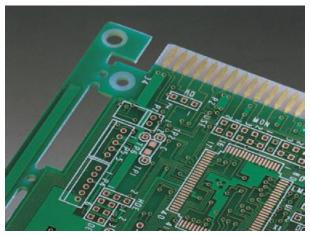
Observed the compound's behavior 100 seconds while pressing with 50g weight.

Aluminum Hydroxide:	60vol%
Resin:	Silicone
Compound Volume:	1.5g
Weight:	50g

<Movie Operating Conditions> PC only. Download this PDF file necessary.

Plant & Office Location / Contact





Aluminum Hydroxide as a flame retardant for CCL.



Aluminum Hydroxide as a filler for solid surface.

CONTACTS for Sales and Technical Information

Aluminum Hydroxide / Alumina / High Purity Alumina-HPA

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