MICA POWDER (Product Name) **A-21S**

Product Information	Chemical Name : MICA (MUSCOVITE) , CAS No.12001-26-2		
Feature	◇ High performance & high quality MICA filler. ◇ Extremely smooth surface and high aspect ratio of particles is obtained by our special wet grinding method. ◇ The average particle size of 23 microns can be applied for a wide usage. (our 325Mesh grade) ◇ A-21S is reduced cohesion grains from A-21.	Application	◇ Plastics ◇ Paints ◇ Rubber etc.

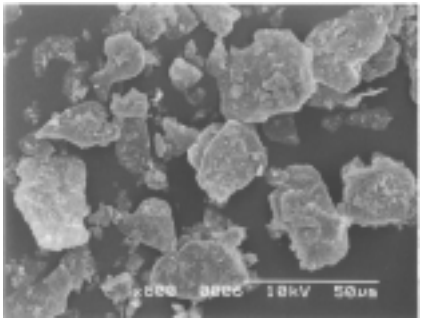
CHARACTERISTICS

TEST ITEM	MIN.	TYP.	MAX.	UNIT	TEST METHOD
Average particle size	—	23	—	μm	Value "MV" by laser diffraction
325 mesh on (wet)	—	0.1	0.3	%	JIS K 5101
Average aspect ratio	—	70	—	—	SEM image
pH	7	8.5	10	—	PH meter
Whiteness	75	83	—	—	Colorimeter
Loss on drying	—	0.5	1	%	Infrared moisture meter
Loss on ignition	—	0.5	2	%	500 ℃
Bulk density	0.1	0.13	0.17	g/ml	JIS K 5101
Oil absorption	—	65	—	ml/100g	JIS K 5101
Chromium	—	< 1.0	10	ppm	ICP
Lead	—	1.8	10	ppm	AAS
Mercury	—	< 0.01	1	ppm	AAS
Cadmium		< 1.0	5	ppm	ICP

GENERAL PROPERTIES

ITEM	Typical value	
Appearance	White fine powder	
Composition	SiO_2	48 %
	Al_2O_3	36 %
	K_2O	8 %
	Fe_2O_3	2 %
	SO_3	1 %
	H_2O (as CRYSTALIZATION)	5 %
Mohs' hardness	2.8	
Specific gravity	2.7-3.1	
Dehydrate temperature	550℃	
Melting point	1,250℃	

SEM IMAGE



(Contact) YAMAGUCHI MICA CO., LTD. SALES Dept.
TEL : +81-533-72-2188 / E-MAIL : sales@ymsc.co.jp

* This information is furnished without warranty that it will not be changed in future.
* Specification of this product is to be determined with customers.

※※ 粒度分布測定結果 ※※

*** Microtrac (X100) ***

計測回数	1 / 1
サンプル名	A-21SR
ロット番号	90241
計測日付	02/19/09
計測時刻	15:03

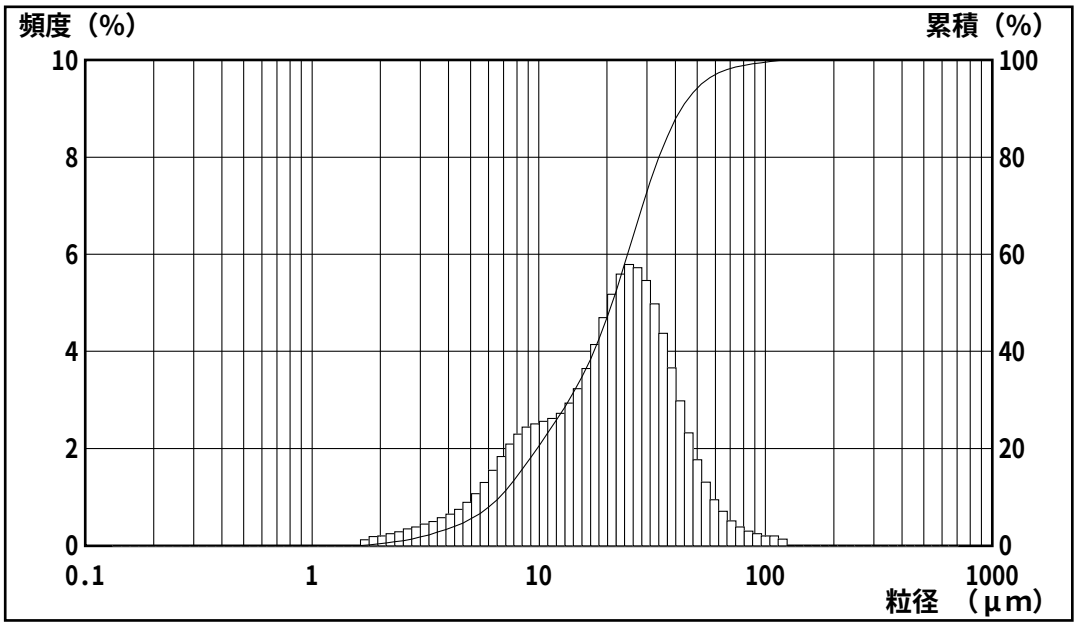
ファイル名	C:\ﾏｲｸﾛ\T12.mtd
データアドレス	349
コメント	349
Run Time	30 (sec)
Transmission	0.94

※ 要約データ ※

dv = 0.1253	mv = 23.64
10% = 6.700	mn = 3.888
50% = 21.13	ma = 13.70
90% = 42.76	cs = 0.438
	sd = 14.16

※ 測定条件 ※

Particle Transparency	:	Reflec
Spherical Particles	:	n/a
Particle Refractive Index	:	n/a
Fluid Refractive Index	:	n/a



ch.	粒径	累積	頻度	ch.	粒径	累積	頻度	ch.	粒径	累積	頻度	ch.	粒径	累積	頻度
1	704.0	100.00	0.00	26	80.70	98.93	0.39	51	9.250	18.16	2.44	76	1.060	0.00	0.00
2	645.6	100.00	0.00	27	74.00	98.54	0.51	52	8.482	15.72	2.30	77	0.972	0.00	0.00
3	592.0	100.00	0.00	28	67.86	98.03	0.70	53	7.778	13.42	2.09	78	0.892	0.00	0.00
4	542.9	100.00	0.00	29	62.23	97.33	0.95	54	7.133	11.33	1.84	79	0.818	0.00	0.00
5	497.8	100.00	0.00	30	57.06	96.38	1.31	55	6.541	9.49	1.55	80	0.750	0.00	0.00
6	456.5	100.00	0.00	31	52.33	95.07	1.77	56	5.998	7.94	1.30	81	0.687	0.00	0.00
7	418.6	100.00	0.00	32	47.98	93.30	2.32	57	5.500	6.64	1.07	82	0.630	0.00	0.00
8	383.9	100.00	0.00	33	44.00	90.98	2.98	58	5.044	5.57	0.89	83	0.578	0.00	0.00
9	352.0	100.00	0.00	34	40.35	88.00	3.66	59	4.625	4.68	0.75	84	0.530	0.00	0.00
10	322.8	100.00	0.00	35	37.00	84.34	4.38	60	4.241	3.93	0.65	85	0.486	0.00	0.00
11	296.0	100.00	0.00	36	33.93	79.96	4.98	61	3.889	3.28	0.57	86	0.446	0.00	0.00
12	271.4	100.00	0.00	37	31.11	74.98	5.46	62	3.566	2.71	0.50	87	0.409	0.00	0.00
13	248.9	100.00	0.00	38	28.53	69.52	5.73	63	3.270	2.21	0.44	88	0.375	0.00	0.00
14	228.2	100.00	0.00	39	26.16	63.79	5.79	64	2.999	1.77	0.39	89	0.344	0.00	0.00
15	209.3	100.00	0.00	40	23.99	58.00	5.60	65	2.750	1.38	0.34	90	0.315	0.00	0.00
16	191.9	100.00	0.00	41	22.00	52.40	5.18	66	2.522	1.04	0.29	91	0.289	0.00	0.00
17	176.0	100.00	0.00	42	20.17	47.22	4.69	67	2.312	0.75	0.24	92	0.265	0.00	0.00
18	161.4	100.00	0.00	43	18.50	42.53	4.14	68	2.121	0.51	0.20	93	0.243	0.00	0.00
19	148.0	100.00	0.00	44	16.96	38.39	3.65	69	1.945	0.31	0.19	94	0.223	0.00	0.00
20	135.7	100.00	0.00	45	15.56	34.74	3.23	70	1.783	0.12	0.12	95	0.204	0.00	0.00
21	124.5	100.00	0.13	46	14.27	31.51	2.93	71	1.635	0.00	0.00	96	0.187	0.00	0.00
22	114.1	99.87	0.20	47	13.08	28.58	2.73	72	1.499	0.00	0.00	97	0.172	0.00	0.00
23	104.7	99.67	0.20	48	12.00	25.85	2.62	73	1.375	0.00	0.00	98	0.158	0.00	0.00
24	95.96	99.47	0.24	49	11.00	23.23	2.56	74	1.261	0.00	0.00	99	0.145	0.00	0.00
25	88.00	99.23	0.30	50	10.09	20.67	2.51	75	1.156	0.00	0.00	100	0.133	0.00	0.00