



MICA POWDER

(Trade Name)

A-41S

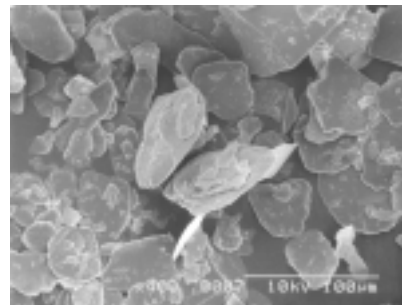
Product Information	Chemical Name : MICA (MUSCOVITE) , CAS No.12001-26-2		
Feature	<ul style="list-style-type: none"> ◇ High performance & high quality MICA filler ◇ Type "S", which is reduced cohesion. ◇ Extremely smooth surface and high aspect ratio of particles is obtained by our special wet grinding method. ◇ The average particle size of 47 microns can be applied for a wide usage. (our 200Mesh grade) 	Application	<ul style="list-style-type: none"> ◇ Plastics ◇ Paints ◇ Rubber etc.

CHARACTERISTICS

TEST ITEM	MIN.	TYP.	MAX.	UNIT	TEST METHOD
Average particle size	—	47	—	μ m	Value "MV" by laser diffraction
200 mesh on (wet)	—	2.0	10	%	JIS K 5101
Average aspect ratio	—	80	—	—	SEM image
pH	7	8.5	10	—	PH meter
Whiteness	70	78	—	—	Colorimeter
Loss on drying	—	0.3	1	%	Infrared moisture meter
Loss on ignition	—	0.5	2	%	500 °C
Bulk density	0.20	0.26	0.35	g/ml	JIS K 5101
Oil absorption	—	40	—	ml/100g	JIS K 5101
Chromium	—	< 1.0	10	ppm	ICP
Lead	—	< 1.0	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 ₂ O ₃	36 %
	K ₂ O	8 %
	Fe ₂ O ₃	2 %
	SO ₃	1 %
	H ₂ O	5 %
	CRYSTALIZATION)	(as
Mohs' hardness	2.8	
Specific gravity	2.7-3.1	
Dehydrate temperature	550°C	
Melting point	1,250°C	

SEM IMAGE

(Contact) YAMAGUCHI MICA CO., LTD. SALES Dept.
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粒度分布測定結果

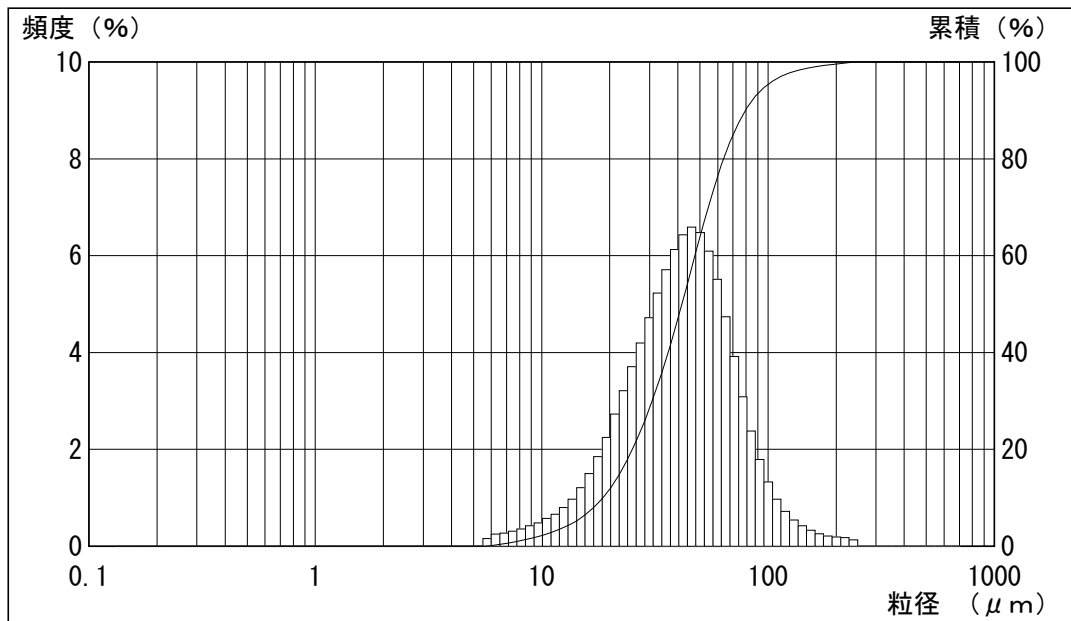
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*** Microtrac (X100) ***

計測回数	1 / 1
サンプル名	A-41S
ロット番号	11113
計測日付	11/17/11
計測時刻	11:20

ファイル名	C:\¥...¥T17.mtd
データアドレス	928
コメント	928
Run Time	30 (sec)
Transmission	0.96

※ 要約データ ※		※ 測定条件 ※	
dv = 0.1455	mv = 47.08	Particle Transparency	: Reflec
10% = 18.63	mn = 13.80	Spherical Particles	: n/a
50% = 41.62	ma = 33.01	Particle Refractive Index	: n/a
90% = 79.46	cs = 0.182	Fluid Refractive Index	: n/a
	sd = 23.05		



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	90.55	3.09	51	9.250	1.77	0.42	76	1.060	0.00	0.00
2	645.6	100.00	0.00	27	74.00	87.46	3.92	52	8.482	1.35	0.36	77	0.972	0.00	0.00
3	592.0	100.00	0.00	28	67.86	83.54	4.74	53	7.778	0.99	0.31	78	0.892	0.00	0.00
4	542.9	100.00	0.00	29	62.23	78.80	5.51	54	7.133	0.68	0.27	79	0.818	0.00	0.00
5	497.8	100.00	0.00	30	57.06	73.29	6.09	55	6.541	0.41	0.25	80	0.750	0.00	0.00
6	456.5	100.00	0.00	31	52.33	67.20	6.48	56	5.998	0.16	0.16	81	0.687	0.00	0.00
7	418.6	100.00	0.00	32	47.98	60.72	6.59	57	5.500	0.00	0.00	82	0.630	0.00	0.00
8	383.9	100.00	0.00	33	44.00	54.13	6.43	58	5.044	0.00	0.00	83	0.578	0.00	0.00
9	352.0	100.00	0.00	34	40.35	47.70	6.13	59	4.625	0.00	0.00	84	0.530	0.00	0.00
10	322.8	100.00	0.00	35	37.00	41.57	5.71	60	4.241	0.00	0.00	85	0.486	0.00	0.00
11	296.0	100.00	0.00	36	33.93	35.86	5.23	61	3.889	0.00	0.00	86	0.446	0.00	0.00
12	271.4	100.00	0.00	37	31.11	30.63	4.72	62	3.566	0.00	0.00	87	0.409	0.00	0.00
13	248.9	100.00	0.13	38	28.53	25.91	4.20	63	3.270	0.00	0.00	88	0.375	0.00	0.00
14	228.2	99.87	0.18	39	26.16	21.71	3.71	64	2.999	0.00	0.00	89	0.344	0.00	0.00
15	209.3	99.69	0.19	40	23.99	18.00	3.21	65	2.750	0.00	0.00	90	0.315	0.00	0.00
16	191.9	99.50	0.21	41	22.00	14.79	2.73	66	2.522	0.00	0.00	91	0.289	0.00	0.00
17	176.0	99.29	0.26	42	20.17	12.06	2.25	67	2.312	0.00	0.00	92	0.265	0.00	0.00
18	161.4	99.03	0.33	43	18.50	9.81	1.85	68	2.121	0.00	0.00	93	0.243	0.00	0.00
19	148.0	98.70	0.42	44	16.96	7.96	1.50	69	1.945	0.00	0.00	94	0.223	0.00	0.00
20	135.7	98.28	0.54	45	15.56	6.46	1.21	70	1.783	0.00	0.00	95	0.204	0.00	0.00
21	124.5	97.74	0.72	46	14.27	5.25	0.97	71	1.635	0.00	0.00	96	0.187	0.00	0.00
22	114.1	97.02	0.97	47	13.08	4.28	0.80	72	1.499	0.00	0.00	97	0.172	0.00	0.00
23	104.7	96.05	1.33	48	12.00	3.48	0.66	73	1.375	0.00	0.00	98	0.158	0.00	0.00
24	95.96	94.72	1.79	49	11.00	2.82	0.57	74	1.261	0.00	0.00	99	0.145	0.00	0.00
25	88.00	92.93	2.38	50	10.09	2.25	0.48	75	1.156	0.00	0.00	100	0.133	0.00	0.00