

MICA POWDER

(Trade Name)

SJ-010

Product Information	Chemical Name : MICA (MUSCOVITE) , CAS No.12001-26-2		
Feature	<ul style="list-style-type: none"> ◇ Fine particles (Average : 10 microns) ◇ Wet-dry hybrid grinding method producing super fine particles having a high aspect ratio. ◇ High quality of Indian Muscovite used as raw materials. 	Application	<ul style="list-style-type: none"> ◇ Plastics ◇ Paints ◇ Rubbers etc.

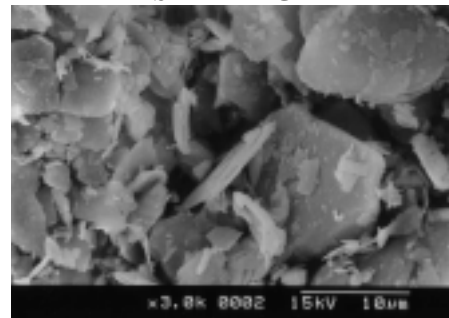
CHARACTERISTICS

TEST ITEM	MIN.	TYP.	MAX.	UNIT	TEST METHOD
Average particle size	—	10	—	μ m	Value “MV” by laser diffraction
325 mesh on (wet)	—	0.1	0.5	%	JIS K 5101
Average aspect ratio	—	20	—	—	SEM image
pH	7	9.2	10	—	PH meter
Whiteness	78	85	—	—	Colorimeter
Loss on drying	—	0.5	2	%	Infrared moisture meter
Loss on ignition	—	1.0	2	%	500 °C
Bulk density	—	0.14	—	g/ml	JIS K 5101
Oil absorption	—	73	—	ml/100g	JIS K 5101
Chromium	—	<1.0	10	ppm	ICP
Lead	—	2.1	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 (as CRYSTALIZATION)	5 %
Mohs' hardness	2.8	
Specific gravity	2.7-3.1	
Dehydrate temperature	550°C	
Melting point	1,250°C	

SEM IMAGE



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粒度分布測定結果

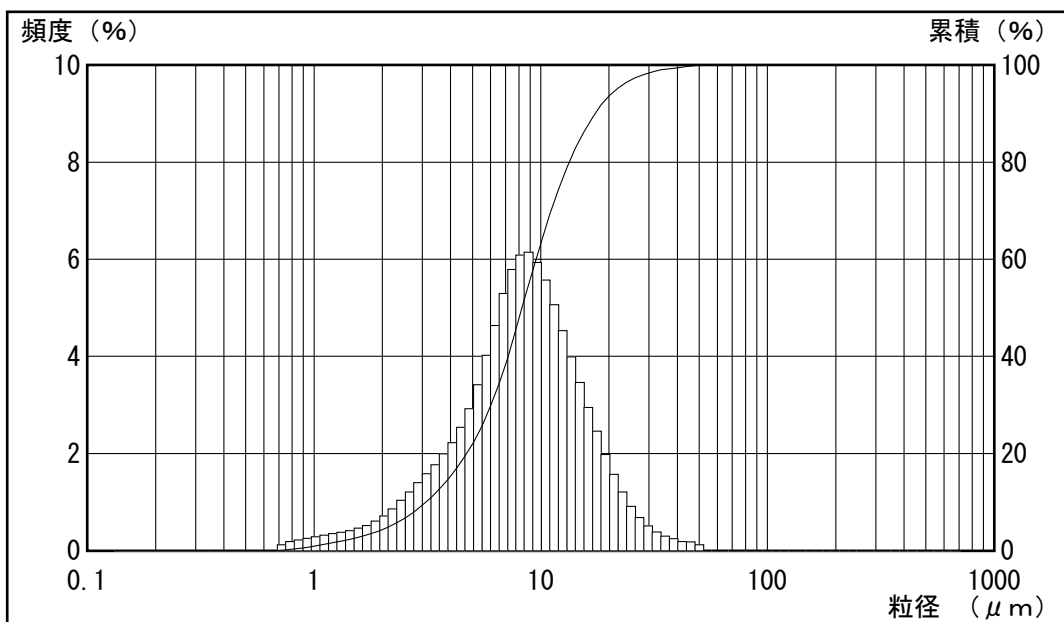


*** Microtrac (X100) ***

計測回数	1 / 1
サンプル名	SJ-010
ロット番号	61002
計測日付	10/17/06
計測時刻	10:41

ファイル名	c:\マイクロ\T08.mtd
データアドレス	39
コメント	39
Run Time	30 (sec)
Transmission	0.89

※ 要約データ ※		※ 測定条件 ※	
dv = 0.1342	mv = 9.639	Particle Transparency	: Reflec
10% = 3.111	mn = 1.627	Spherical Particles	: n/a
50% = 8.290	ma = 5.912	Particle Refractive Index	: n/a
90% = 17.41	cs = 1.015	Fluid Refractive Index	: n/a
	sd = 5.327		



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	100.00	0.00	51	9.250	57.75	6.14	76	1.060	1.07	0.29
2	645.6	100.00	0.00	27	74.00	100.00	0.00	52	8.482	51.61	6.09	77	0.972	0.78	0.25
3	592.0	100.00	0.00	28	67.86	100.00	0.00	53	7.778	45.52	5.79	78	0.892	0.53	0.22
4	542.9	100.00	0.00	29	62.23	100.00	0.00	54	7.133	39.73	5.30	79	0.818	0.31	0.19
5	497.8	100.00	0.00	30	57.06	100.00	0.00	55	6.541	34.43	4.64	80	0.750	0.12	0.12
6	456.5	100.00	0.00	31	52.33	100.00	0.12	56	5.998	29.79	4.02	81	0.687	0.00	0.00
7	418.6	100.00	0.00	32	47.98	99.88	0.18	57	5.500	25.77	3.42	82	0.630	0.00	0.00
8	383.9	100.00	0.00	33	44.00	99.70	0.19	58	5.044	22.35	2.92	83	0.578	0.00	0.00
9	352.0	100.00	0.00	34	40.35	99.51	0.24	59	4.625	19.43	2.54	84	0.530	0.00	0.00
10	322.8	100.00	0.00	35	37.00	99.27	0.30	60	4.241	16.89	2.22	85	0.486	0.00	0.00
11	296.0	100.00	0.00	36	33.93	98.97	0.39	61	3.889	14.67	1.99	86	0.446	0.00	0.00
12	271.4	100.00	0.00	37	31.11	98.58	0.51	62	3.566	12.68	1.77	87	0.409	0.00	0.00
13	248.9	100.00	0.00	38	28.53	98.07	0.68	63	3.270	10.91	1.58	88	0.375	0.00	0.00
14	228.2	100.00	0.00	39	26.16	97.39	0.91	64	2.999	9.33	1.40	89	0.344	0.00	0.00
15	209.3	100.00	0.00	40	23.99	96.48	1.21	65	2.750	7.93	1.21	90	0.315	0.00	0.00
16	191.9	100.00	0.00	41	22.00	95.27	1.57	66	2.522	6.72	1.03	91	0.289	0.00	0.00
17	176.0	100.00	0.00	42	20.17	93.70	1.98	67	2.312	5.69	0.86	92	0.265	0.00	0.00
18	161.4	100.00	0.00	43	18.50	91.72	2.46	68	2.121	4.83	0.72	93	0.243	0.00	0.00
19	148.0	100.00	0.00	44	16.96	89.26	2.95	69	1.945	4.11	0.61	94	0.223	0.00	0.00
20	135.7	100.00	0.00	45	15.56	86.31	3.46	70	1.783	3.50	0.52	95	0.204	0.00	0.00
21	124.5	100.00	0.00	46	14.27	82.85	3.99	71	1.635	2.98	0.46	96	0.187	0.00	0.00
22	114.1	100.00	0.00	47	13.08	78.86	4.53	72	1.499	2.52	0.41	97	0.172	0.00	0.00
23	104.7	100.00	0.00	48	12.00	74.33	5.07	73	1.375	2.11	0.37	98	0.158	0.00	0.00
24	95.96	100.00	0.00	49	11.00	69.26	5.57	74	1.261	1.74	0.35	99	0.145	0.00	0.00
25	88.00	100.00	0.00	50	10.09	63.69	5.94	75	1.156	1.39	0.32	100	0.133	0.00	0.00