

MICA POWDER

(Trade Name)

YM-31S

Product Information	Chemical Name : MICA (MUSCOVITE) , CAS No.12001-26-2		
Feature	<ul style="list-style-type: none"> ◇ Low cost and high quality MICA for filler ◇ Excellent smooth surface and high aspect ratio of particles are obtained by our special wet grinding method. ◇ The average particle size of 35 microns can be applied for wide usage. (our 250Mesh grade) ◇ YM-31S is reduced cohesion grains. 	Application	<ul style="list-style-type: none"> ◇ Plastics ◇ Paints ◇ Rubber etc.

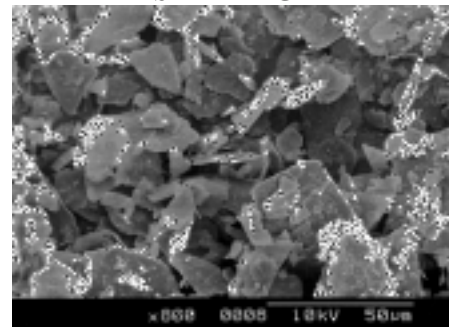
CHARACTERISTICS

TEST ITEM	MIN.	TYP.	MAX.	UNIT	TEST METHOD
Average particle size	—	35	—	μ m	Value “MV” by laser diffraction
200 mesh on (wet)	—	1	5	%	JIS K 5101
Average aspect ratio	—	75	—	—	SEM image
pH	7	8.5	10	—	PH meter
Whiteness	—	78	—	—	Colorimeter
Loss on drying	—	0.5	1	%	Infrared moisture meter
Loss on ignition	—	0.5	2	%	500 °C
Bulk density	—	0.17	—	g/ml	JIS K 5101
Oil absorption	—	55	—	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 (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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* 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 9.0c (MT3000 Low Wet HRA-EL Mode) ***

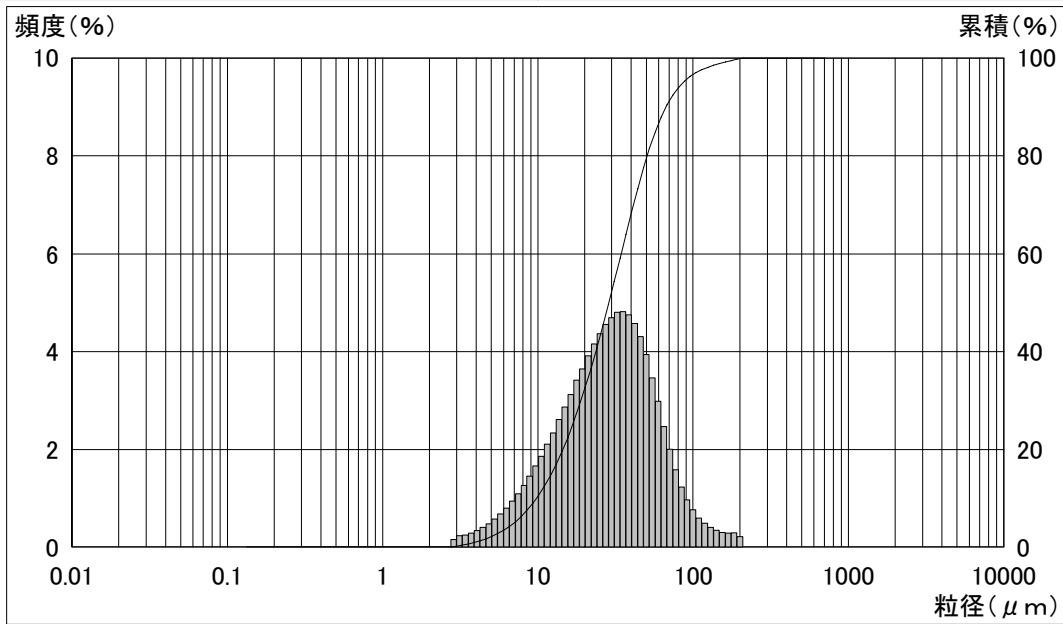
ファイル名	C:\My Documents\H-18.mh3		
測定回数	1 / 1	データアドレス	735
サンプル名 (ID-1)	YM-31S	コメント	18-735
ロット番号 (ID-2)	081040	測定時間	30 (秒)
測定日付	03/10/2009	照射光透過率	0.93
測定時刻	13:46	分布形式	体積

※ 要約データ ※

dv = 0.0292	mv = 35.43 (μm)
10% = 9.745 (μm)	mn = 6.420 (μm)
50% = 28.71 (μm)	ma = 19.97 (μm)
90% = 66.75 (μm)	cs = 0.300 (m ² /cm ³)
	sd = 21.63

※ 測定条件 ※

粒子透過性 :	反射
真球/非球形 :	非球形
粒子屈折率 :	---
溶媒屈折率 :	---



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	94.07	1.59	51	9.250	9.00	1.46	76	1.060	0.00	0.00
2	645.6	100.00	0.00	27	74.00	92.48	2.01	52	8.482	7.54	1.27	77	0.972	0.00	0.00
3	592.0	100.00	0.00	28	67.86	90.47	2.47	53	7.778	6.27	1.10	78	0.892	0.00	0.00
4	542.9	100.00	0.00	29	62.23	88.00	2.98	54	7.133	5.17	0.94	79	0.818	0.00	0.00
5	497.8	100.00	0.00	30	57.06	85.02	3.47	55	6.541	4.23	0.80	80	0.750	0.00	0.00
6	456.5	100.00	0.00	31	52.33	81.55	3.95	56	5.998	3.43	0.68	81	0.687	0.00	0.00
7	418.6	100.00	0.00	32	47.98	77.61	4.31	57	5.500	2.75	0.58	82	0.630	0.00	0.00
8	383.9	100.00	0.00	33	44.00	73.30	4.58	58	5.044	2.17	0.48	83	0.578	0.00	0.00
9	352.0	100.00	0.00	34	40.35	68.72	4.75	59	4.625	1.69	0.41	84	0.530	0.00	0.00
10	322.8	100.00	0.00	35	37.00	63.97	4.82	60	4.241	1.28	0.34	85	0.486	0.00	0.00
11	296.0	100.00	0.00	36	33.93	59.15	4.81	61	3.889	0.94	0.29	86	0.446	0.00	0.00
12	271.4	100.00	0.00	37	31.11	54.34	4.69	62	3.566	0.65	0.25	87	0.409	0.00	0.00
13	248.9	100.00	0.00	38	28.53	49.65	4.56	63	3.270	0.40	0.24	88	0.375	0.00	0.00
14	228.2	100.00	0.00	39	26.16	45.09	4.37	64	2.999	0.16	0.16	89	0.344	0.00	0.00
15	209.3	100.00	0.22	40	23.99	40.73	4.16	65	2.750	0.00	0.00	90	0.315	0.00	0.00
16	191.9	99.78	0.30	41	22.00	36.57	3.92	66	2.522	0.00	0.00	91	0.289	0.00	0.00
17	176.0	99.48	0.29	42	20.17	32.65	3.65	67	2.312	0.00	0.00	92	0.265	0.00	0.00
18	161.4	99.19	0.30	43	18.50	29.00	3.42	68	2.121	0.00	0.00	93	0.243	0.00	0.00
19	148.0	98.89	0.35	44	16.96	25.58	3.12	69	1.945	0.00	0.00	94	0.223	0.00	0.00
20	135.7	98.54	0.41	45	15.56	22.46	2.87	70	1.783	0.00	0.00	95	0.204	0.00	0.00
21	124.5	98.13	0.49	46	14.27	19.59	2.61	71	1.635	0.00	0.00	96	0.187	0.00	0.00
22	114.1	97.64	0.60	47	13.08	16.98	2.34	72	1.499	0.00	0.00	97	0.172	0.00	0.00
23	104.7	97.04	0.76	48	12.00	14.64	2.11	73	1.375	0.00	0.00	98	0.158	0.00	0.00
24	95.96	96.28	0.97	49	11.00	12.53	1.86	74	1.261	0.00	0.00	99	0.145	0.00	0.00
25	88.00	95.31	1.24	50	10.09	10.67	1.67	75	1.156	0.00	0.00	100	0.133	0.00	0.00