

# 富雅科技股份有限公司

FU-YA TECHNOLOGY CORPORATION

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## CALCY-F

### 1. 「CALCY-F」Features

- \* It is manufactured the permission of the food hygiene law in Japan
- \* High purity Calcium carbonate
- \* Snow White, tasteless, odorless, harmless
- \* Superior in stability

### 2. 「CALCY-F」Grades

Test Item		CALCY-F Series			Standard
		#2000	#6402	#9860	
Average particle size	$\mu\text{m}$	2.00	4.00	7.50	Microtrack (X100)
CaCO <sub>3</sub> content	%	Not less than 98.0			Japanese Standards of Food Additives 8th edition
Hydrochloric acid insoluble matter	%	Not more than 0.20			
Free alkaline		Disappearance of red color			
Heavy metals	$\mu\text{g/g}$	Not more than 20(as Pb)			
Alkaline metal and Magnesium	%	Not more than 1.0			
Barium	%	Not more than 0.030(as Ba)			
Arsenic	$\mu\text{g/g}$	Not more than 4.0(as As <sub>2</sub> O <sub>3</sub> )			
Loss on drying	%	Not more than 2.0			


### 3. 「CALCY-F」Use Example

- \* Cookie, Pet food, Abrasives of toothpaste
- \* Instant noodles, Milk powder, Chewing Gum, Sai sauce
- \* Fish cake, Medium of mushroom, etc. . .

### 4. Packing

- \* 20/25kg paper bag

# TYPICAL PROPERTIES

Test Item		Article	Ultra fine-grain (ESCALON series)					
			# 2200	# 2000	# 1500	# 800	# 200	# 100
Specific surface area	cm <sup>2</sup> /g		22,000	20,000	15,000	13,000	11,000	10,000
Average particle size	A: μm		1.01	1.11	1.48	1.71	2.02	2.22
	B: μm		1.6	1.8	2.5	3.0	4.0	4.8
325 Mesh residue	%		0.0	0.0	0.0	0.0	0.0	0.0
Apparent specific gravity	A:g/ml		0.26	0.28	0.34	0.40	0.44	0.47
	B:g/ml		0.72	0.75	0.85	0.90	1.00	1.07
Oil absorption	ml/100g		35.0	33.0	29.0	27.0	25.0	24.0
D.O.P. Absorption	ml/100g		45.0	43.0	39.0	37.0	34.0	33.0
Whiteness	%		95.5	95.5	95.0	95.0	95.0	95.0
Moisture	%		0.3	0.3	0.3	0.3	0.2	0.2
Particle size distribution (Percent finer than by weight)	1 μm		28	23	18	16	14	13
	2 μm		64	56	44	36	30	28
	3 μm		84	74	57	51	42	38
	4 μm		93	87	68	62	50	45
	5 μm		96	93	76	68	58	52
	6 μm		98	96	82	75	65	58
	8 μm		99	99	92	86	76	69
	10 μm		99	99	96	92	83	80
	20 μm		100	100	100	99	98	98
	30 μm					100	100	100
Measuring method	Specific surface area : Surface area per gram is calculated by residence degree against the amount of flowing regular air which pass through regular porous compressed solid formalized by CaCO <sub>3</sub> for sample.							
	Average particle size A: Diameter of specific surface area. 6/gravity×specific surface area B: 50% Diameter at gravimetric cumulatively particle size distribution.							
	325 Mesh residue : JIS K5101							
								

Article		Surface coated calcium carbonate										
		Fatty acid (SCP series)										Rosin
		E#2300	E#2010	E#205	E#1510	E#810	E#110	E#103	E#80	E#65	E#45	RE#2315
Test Item												
Specific surface area	cm <sup>2</sup> /g	23,000	20,000	20,000	15,000	13,000	11,000	11,000	8,500	6,500	3,500	23,000
Average particle size	A:μm	0.97	1.11	1.11	1.48	1.71	2.02	2.02	2.61	3.42	6.35	0.97
	B:μm	1.5	1.8	1.8	2.5	3.0	4.0	4.0	5.3	6.5	12.5	1.5
325 Mesh residue	%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.0	0.0
Apparent specific gravity	A:g/ml	0.56	0.44	0.45	0.53	0.66	0.73	0.60	0.88	0.93	1.06	0.47
	B:g/ml	0.96	0.78	0.80	0.92	0.98	1.26	1.05	1.52	1.60	1.80	0.82
Oil absorption	ml/100g	16.5	20.5	19.0	17.0	16.5	16.0	17.5	15.0	14.0	13.0	23.0
D.O.P. Absorption	ml/100g	17.0	21.0	19.5	19.5	17.0	16.5	18.5	15.5	14.5	13.5	24.0
Whiteness	%	94.0	94.0	94.0	93.5	93.0	93.0	93.0	92.5	92.0	91.0	93.0
Moisture	%	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.5
Particle size distribution (Percent finer than by weight)	1μm	30	23	23	18	16	14	14	12	10	9	30
	2μm	67	56	56	44	36	30	30	25	22	14	67
	3μm	85	74	74	57	51	42	42	34	30	18	85
	4μm	94	87	87	68	62	50	50	42	36	20	94
	5μm	97	93	93	76	68	58	58	48	41	22	97
	6μm	98	96	96	82	75	65	65	55	47	26	98
	8μm	99	99	99	92	86	76	76	65	57	33	99
	10μm	99	99	99	96	92	83	83	74	64	40	99
	20μm	100	100	100	100	99	98	98	96	90	77	100
	30μm					100	100	100	99	98	94	
40μm								100	99	98		
Measuring method	D.O.P. Absorption : The end of point when the whole kneaded sample is changed to a tight with dropping D.O.P.											
	Whiteness : Reflectometer (TC-6D) by TOKYO DENSHOKU Co.,Ltd.											
	Moisture : Electronic moisture balance (EB-330MOC) by SHIMADZU,LTD.											
	Particle size distribution : Laser diffraction type particle size analyzer (SALD-1100) by SHIMADZU,LTD.											

