

# 製品カタログ

## Product Catalog



大日化学工業株式会社

Dainichi Chemical Industry Co., Ltd.

# Calcium Stearate (OEM)

## 《Specifications》

Product Name	Specification Items						Reference	Packing
	Appearance	Moisture (%)	Metal Content (%)	FFA (%)	Melting Point (°C)	Thieve Pass (%)	Particle Size (μm)	
Calcium stearate-H	White Powder	3.0 Max.	6.6 ~ 7.1	1.0 Max.	145 ~ 160	99 Min. (200)	12 ~ 20	25 kg Paper bag
Calcium stearate-H50	White Powder	3.0 Max.	6.6 ~ 7.1	1.0 Max.	145 ~ 160	99 Min. (200)	7 ~ 13	10 kg Paper bag

## 《Chemical Characteristics》

- Exert lubricating and dispersing properties on synthetic resin.
- Non-toxic and non-harmful
- Has a better thermal stability than Zinc stearate and Magnesium stearate.
- Has a higher viscosity property than Zinc stearate and Magnesium stearate.

## 《Product Characteristics》

Calcium stearate-H : Higher quality in Asia

Calcium stearate-H50 : The same grade as Japanese product. Particle size is smaller than H grade's.

## 《Usage》

Resin								Pigment	Rubber	Resin Coated Sand
Thermoplastic				Thermosetting						
PS	PE	PP	ABS	PC	PET	PA	PPS	Phenol	FRP	
	○	○	○			○		○	○	○

## 《Other Usage》

- Water repellent agent for mortar.

## 《Certification》

- Registered to JHOSPA (Japanese Hygienic Olefin and Styrene Plastics Association)
- Halal Certification (Fatty acids are derived from plant oil.)

# Technical Data (Part 1)

## 《 Comparison of Actual Measured Value 》

Product Name	Specification Items					Reference
	Moisture (%)	Metal Content (%)	FFA (%)	Melting Point (°C)	Thieve Pass (%)	Particle Size (μm)
Calcium stearate-H	2.2	6.8	0.4	145.5	99.0	14.8
Calcium stearate-H50	1.4	6.7	0.5	150.8	99.6	8.1
Daiwax C (Dainichi's)	1.0	6.8	0.1	148.0	99.9	10.7
Competitor's Products (Southeast Asia)	1.0	13.7	0.3	—	99.9	4.8

## 《 Comparison of Appearance (Melted) 》

Calcium stearate-H



Calcium stearate-H50



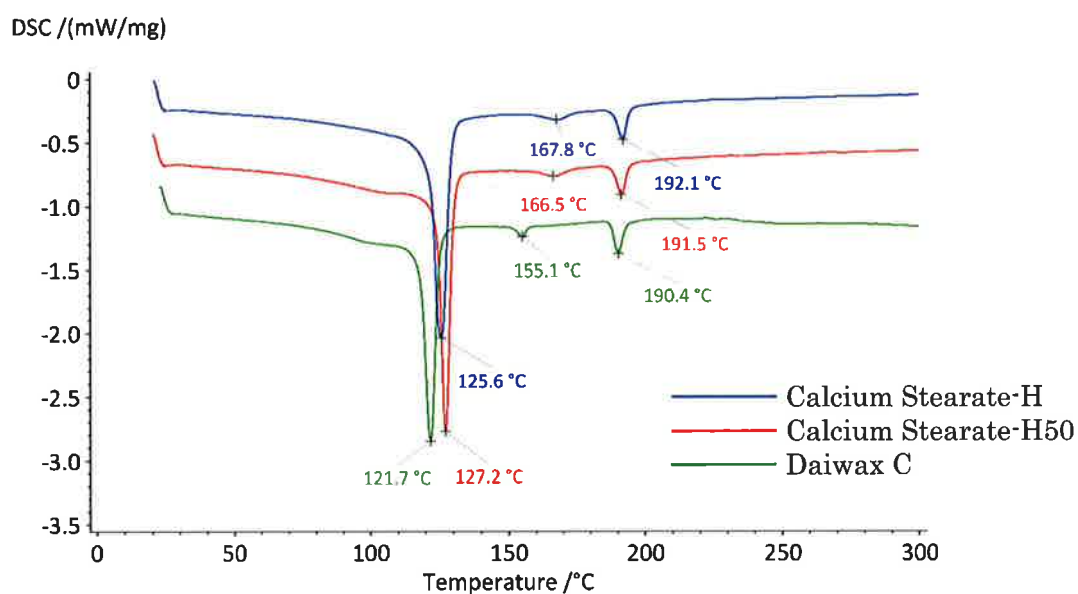
Daiwax C



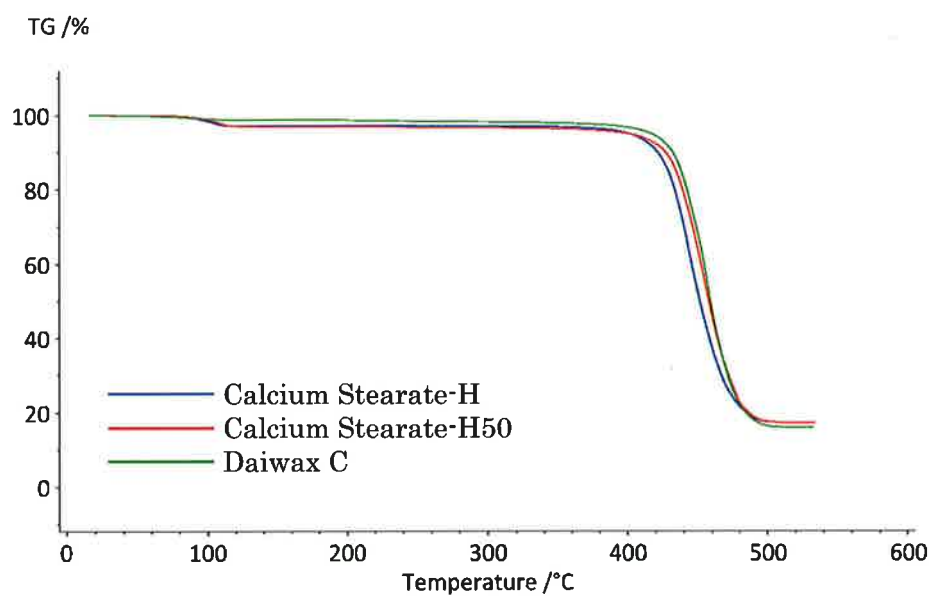
# Technical Data (Part 2)

## 《Thermal Property》

### •Differential Thermal Analysis



### •Thermogravimetric Analysis



### Weight Loss (%)

Temperature	200°C	250°C	300°C	350°C	400°C	450°C	500°C
Calcium Stearate-H	2.8	2.9	2.9	3.1	4.8	47.2	82.6
Calcium stearate-H50	3.1	3.2	3.3	3.6	5.0	35.8	82.5
Daiwax C	1.3	1.6	1.8	2.1	3.3	31.1	83.7

# Zinc Stearate (OEM)

## 《Specifications》

Product Name	Specification Items						Reference	Packing
	Appearance	Moisture (%)	Metal Content (%)	FFA (%)	Melting Point (°C)	Thieve Pass (%)	Particle Size (μm)	
Zinc stearate-H	White Powder	0.5 Max.	10.2 ~ 11.5	1.0 Max.	118 ~ 125	99 Min. (200)	15 ~ 26	25 kg Paper bag
Zinc stearate-H50	White Powder	0.5 Max.	10.2 ~ 11.5	1.0 Max.	118 ~ 125	99 Min. (200)	7 ~ 13	10 kg Paper bag

## 《Chemical Characteristics》

- Exert excellent lubricating and dispersing properties on synthetic resin.
- Has a better transparency than Calcium stearate and Magnesium stearate when it's melted.
- Has a lower viscosity than Calcium stearate and Magnesium stearate.

## 《Product Characteristics》

Zinc stearate-H : Higher quality in Asia

Zinc stearate-H50 : The same grade as Japanese product. Particle size is smaller than H grade's.

## 《Usage》

Resin								Pigment	Rubber	Resin Coated Sand
Thermoplastic				Thermosetting						
PS	PE	PP	ABS	PC	PET	PA	PPS	Phenol	FRP	
○								○	○	○

## 《Other Usage》

- Mold release agent for Thermosetting resin, such as Urea resin and Melamine resin.
- Mold release agent for Expanded polystyrene.

## 《Certification》

- Registered to JHOSPA (Japanese Hygienic Olefin and Styrene Plastics Association)
- Halal Certification (Fatty acids are derived from plant oil.)

# Technical Data (Part 1)

## 《 Comparison of Actual Measured Value 》

Product Name	Specification Items					Reference
	Moisture (%)	Metal Content (%)	FFA (%)	Melting Point (°C)	Thieve Pass (%)	Particle Size (μm)
Zinc stearate-H	0.2	10.7	0.7	124.7	99.0	23.0
Zinc stearate-H50	0.2	10.8	0.6	124.5	99.9	9.7
Daiwax ZP (Dainichi's)	0.1	10.7	0.1	122.0	99.9	10.9
Competitor's Products (Southeast Asia)	0.1	11.0	0.4	—	99.9	12.2

## 《 Comparison of Appearance (Melted) 》

Zinc stearate-H



Zinc stearate-H50



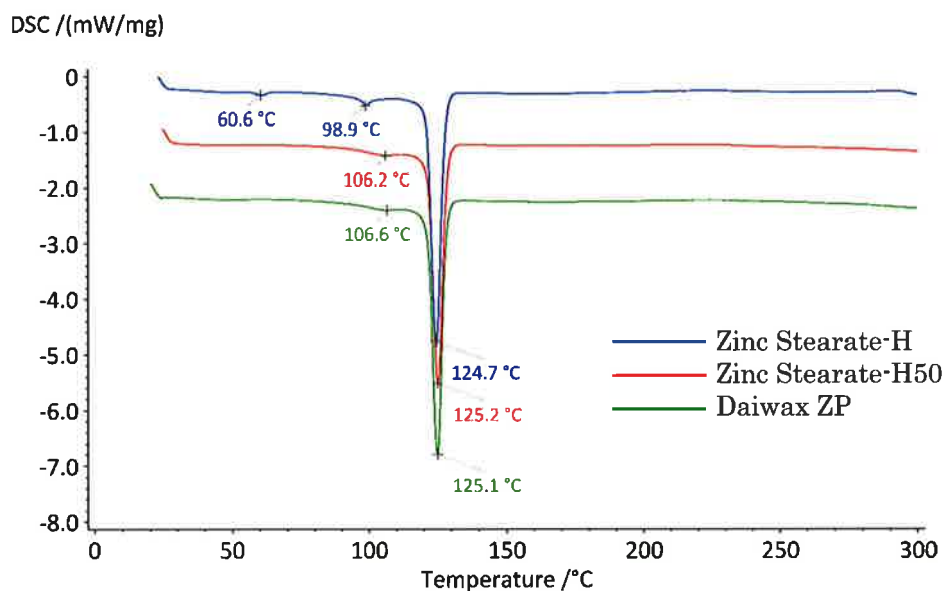
Daiwax ZP



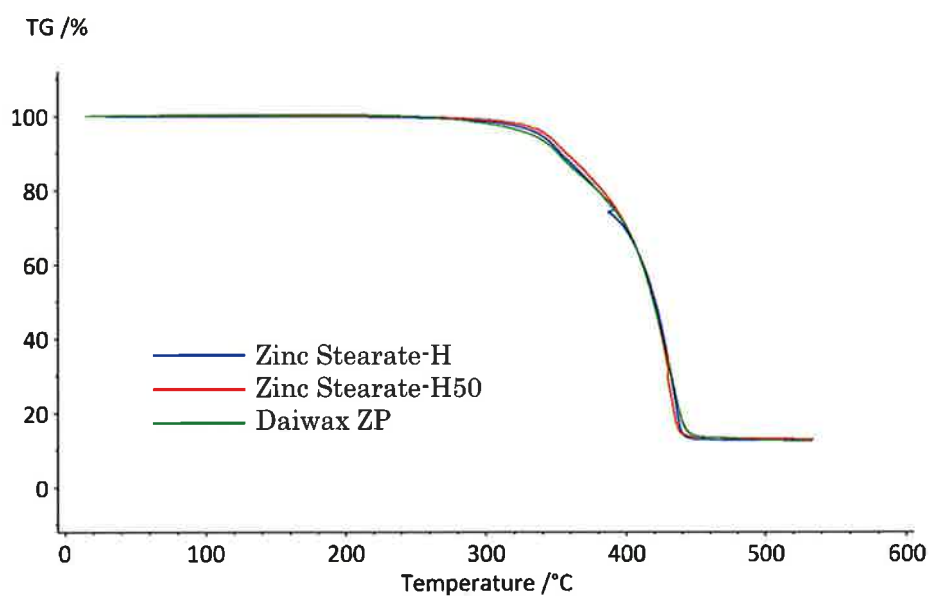
# Technical Data (Part 2)

## 《Thermal Property》

### •Differential Thermal Analysis



### •Thermogravimetric Analysis



### Weight Loss (%)

Temperature	200°C	250°C	300°C	350°C	400°C	450°C	500°C
Zinc Stearate-H	0.1	0.4	1.4	8.6	30.6	87.0	87.3
Zinc Stearate-H50	0	0.2	1.0	7.2	29.6	86.4	86.8
Daiwax ZP	0	0.1	2.0	9.4	29.9	86.1	87.2

# Magnesium Stearate (OEM)

## 《Specifications》

Product Name	Specification Items						Reference	Packing
	Appearance	Moisture (%)	Metal Content (%)	FFA (%)	Melting Point (°C)	Thieve Pass (%)	Particle Size (μm)	
Magnesium stearate-H	White Powder	4.0 Max.	4.0 ~ 5.0	2.0 Max.	120 ~ 125	99 Min. (200)	12 ~ 22	25 kg Paper bag

## 《Chemical Characteristics》

- Exert lubricating and dispersing properties on synthetic resin.
- Non-toxic and non-harmful
- Has a better lubricating property than Calcium stearate, but it is worse than Zinc stearate.
- Has a better thermal stability than Zinc stearate, but it is worse than Calcium stearate.

## 《Product Characteristics》

Magnesium stearate-H : Higher quality in Asia

## 《Usage》

Resin										Pigment	Rubber	Resin Coated Sand
Thermoplastic								Thermosetting				
PS	PE	PP	ABS	PC	PET	PA	PPS	Phenol	FRP			
		○	○							○		

## 《Certification》

- Registered to JHOSPA (Japanese Hygienic Olefin and Styrene Plastics Association)
- Halal Certification (Fatty acids are derived from plant oil.)



# Technical Data (Part 1)

## 《 Comparison of Actual Measured Value 》

Product Name	Specification Items					Reference
	Moisture (%)	Metal Content (%)	FFA (%)	Melting Point (°C)	Thieve Pass (%)	Particle Size (μm)
Magnesium stearate-H	3.9	4.2	1.9	125.0	99.0	18.2
Daiwax M (Dainichi's)	1.5	4.3	0.3	138.0	99.5	18.0

## 《 Comparison of Appearance (Melted) 》

Magnesium stearate-H



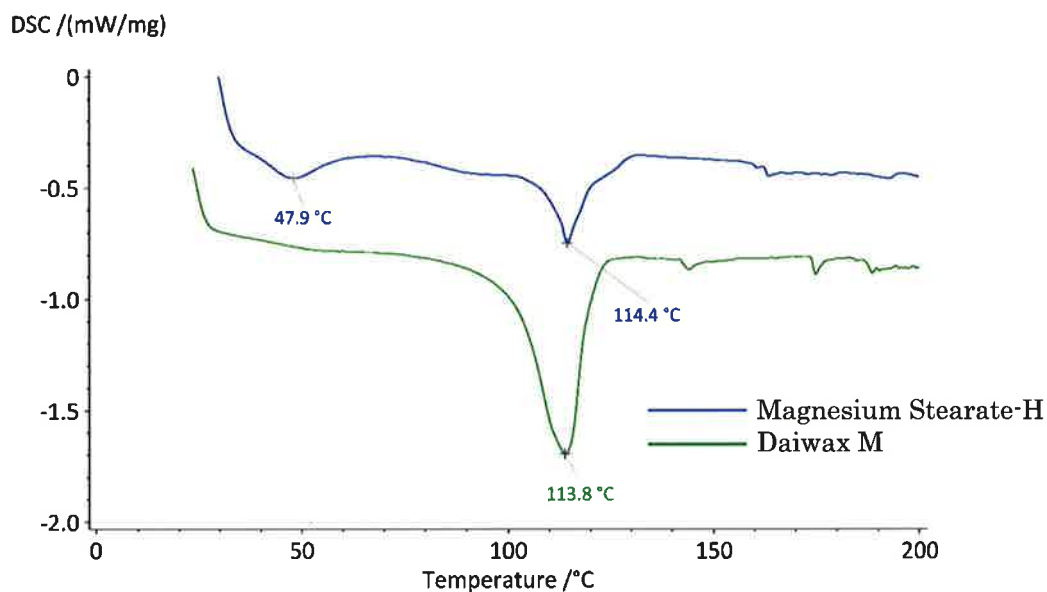
Daiwax M



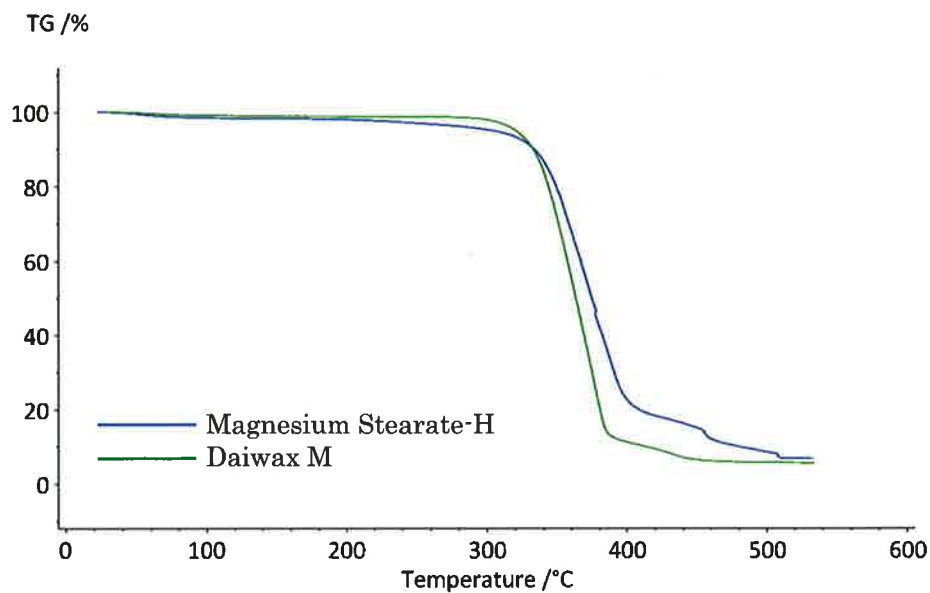
# Technical Data (Part 2)

## 《Thermal Property》

### •Differential Thermal Analysis



### •Thermogravimetric Analysis



### Weight Loss (%)

Temperature	200°C	250°C	300°C	350°C	400°C	450°C	500°C
Magnesium Stearate-H	1.1	1.2	2.1	28.3	88.8	93.5	94.3
Daiwax M	2.0	2.9	4.7	20.5	77.4	85.0	91.5

## お問い合わせ先

製造元	品質保証元	販売代理店
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