

CERIGUARD

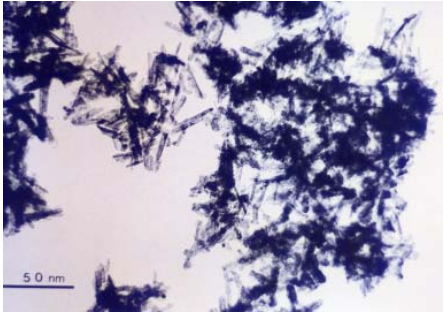
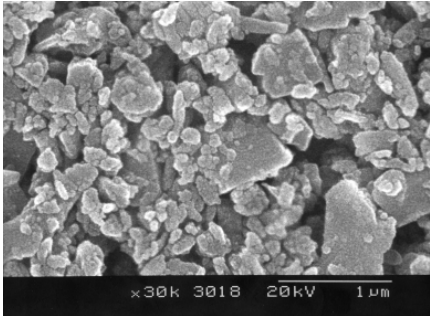
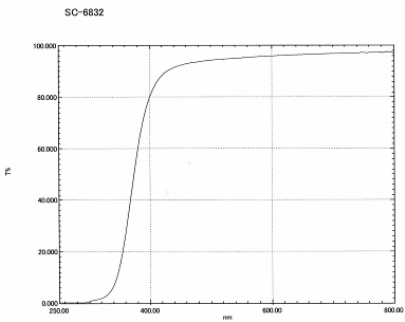
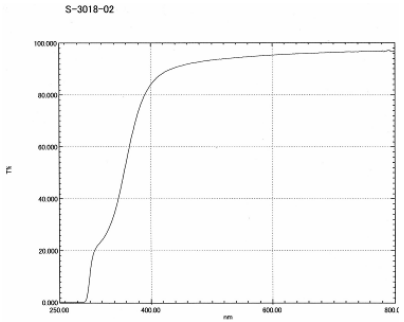
PRODUCT LINE – CERIGUARD Series

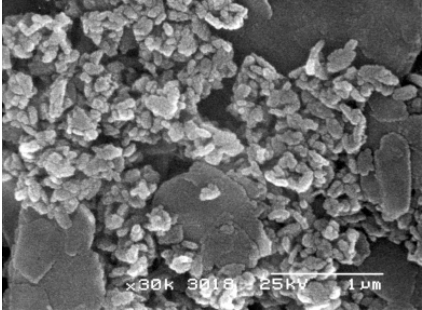
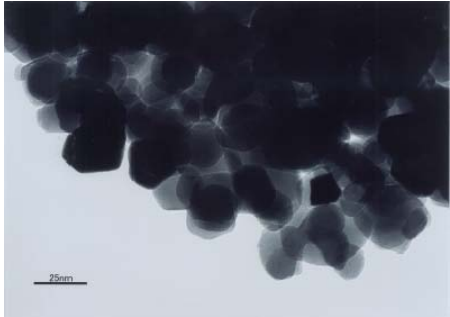
Product Name	INCI Name	Characteristic	Application
CERIGUARD SC-6832	Cerium Oxide Silica Aluminum Hydroxide	CeO ₂ : 60% Two layer CeO ₂ Silica & Alumina coated CeO ₂ Ultra Fine Particle High Transparency	Cosmetics Film, Paint
SI01-5 CERIGUARD SC-6832	Cerium Oxide Silica Aluminum Hydroxide Dimethicone/Methicone Copolymer	5% Silicone coated SC-6832 Water Proof Superior dispersability	Cosmetics
CERIGUARD S-3018-02	Cerium Oxide Quartz Silica Aluminum Hydroxide	CeO ₂ : 23% Three layer of CeO ₂ Function as Filler (Silica Base)	Cosmetics Plastic Compound
CERIGUARD T-3018-02	Cerium Oxide Talc Silica Aluminum Hydroxide	CeO ₂ : 22% Three layer of CeO ₂ Function as Filler (Talc Base, Platelet)	Cosmetics Plastic Compound
CERIGUARD W-500	Calcium Cerium Oxide	CeO ₂ : 92% Ca doped CeO ₂ White Color High Coverage Less Surface Activity	Cosmetics
SI01-8 CERIGUARD W-500	Calcium Cerium Oxide Dimethicone/Methicone Copolymer	8% Silicone coated W-500 Water Proof Superior dispersability	Cosmetics

PRODUCT LINE – Dispersion Series

Product Name	INCI Name	Characteristic	Application
Daitopersion Ce-30	Cerium Oxide Silica Aluminum Hydroxide Dimethicone/Methicone Copolymer PEG-10 Dimethicone Cyclopentasiloxane	Dispersion using CERIGUARD SC-6832. High Transparency Natural Looking	Cosmetics
Daitopersion Ce-50	Calcium Cerium Oxide Dimethicone/Methicone Copolymer PEG-10 Dimethicone Cyclopentasiloxane	Dispersion using CERIGUARD W-500. White Color Superior Feeling	Cosmetics

Typical Properties of CERIGUARD Series

Property		SC-6832	S-3018-02
Appearance	-	Micro Powder	Micro Powder
Color	-	Light Yellow	Light Yellow
pH	-	7.4	7.1
Loss on Drying	%	1.0	0.7
Loss on Ignition	%	4.5	2.0
Water Soluble Substances	%	0.5	0.3
Apparent Specific volume	mL/g	10.0	3.7
Oil Absorption	mL/100g	150	55
Particle Size	μm	8.5	2.0
Primary Particle Size	μm	$0.05^L \times 0.01^\phi$	0.10 ~ 3.00
True Specific Gravity	-	3.8	2.9
CeO ₂	%	60.0	23.0
SiO ₂	%	29.5	73.0
Al ₂ O ₃	%	2.6	1.3
Talc	%	-	-
CaO	%	-	-
Pb	ppm	<3	<3
As	ppm	<2	<2
SEM/TEM image (TEM: SC-6832)			
Light Transmittance Curve			

Property		T-3018-02	W-500
Appearance	-	Micro Powder	Micro Powder
Color	-	Light Yellow	Milk White
pH	-	7.5	8.2
Loss on Drying	%	0.5	0.3
Loss on Ignition	%	1.0	0.5
Water Soluble Substances	%	0.4	0.2
Apparent Specific Volume	mL/g	5.9	1.4
Oil Absorption	mL/100g	100	25
Particle Size	μm	3.9	2.7
Primary Particle Size	μm	0.10 ~ 5.00	0.03
True Specific Gravity	-	2.9	6.2
CeO ₂	%	22.0	92.4
SiO ₂	%	17.5	-
Al ₂ O ₃	%	1.5	-
Talc	%	56.0	-
CaO	%	-	2.8
Pb	ppm	<3	<3
As	ppm	<2	<2
SEM/TEM image (TEM: W-500)			
Light Transmittance Curve		