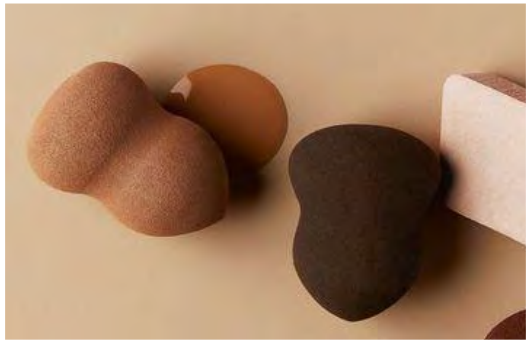
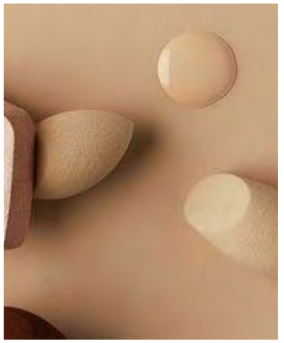
Company Introduction

Version 3.2





For more information

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Cellular Phone: +82-10-9869-7751

COMPANY INTRODUCTION & HISTORY

- Luxon's history has begun with its corporate philosophy "**Shining light on** esthetic self-realization through material science respecting human nature" expressed in our company logo and also fully contained with memorable moments inspiring to our customers and global cosmetic industry.

- Since the establishment in **2005**, we've achieved remarkable growth records in **the competitive market.**
  Those results might be elusive for general manufacturer but Luxon has brought the scheme to a successful issue by supplying our productions embodied the above-mentioned company spirit.

- Based on these success, Luxon would like to consistently propel to materialize our founding spirit through our material science for health protection and green supply chain practice.

- Our products have utilized **eco-friendly raw materials**, advanced nanoscience and are also proved its excellency through relative certificates.

- Luxon's value management and all products' real worth have been recognized from global renowned customers and partners.

- Luxon will do our best to supply steadily these creative products to customers with **outstanding quality**, also take a leading role and responsibility for ethical management and environ politics.

1. COMPANY INTRODUCTION & HISTORY

2023 **"EMBO Silica & ELASTA HSP101"** new product development completed

2022 Successful Production of **"WATER Powder LX Series"**

2021 Successful Production of **"ELASTA SP101"**

2020 Completed development of plastic replacement materials **"ECO Series & SPHESTA MD7 AM"**

2019 KOREA excellent patent award
"A spherical zinc oxide powder coated with natural materials, manufacturing method thereof and cosmetic comprising the same"

2018 Building Zinc Oxide Powder production line

2017 And Transfer to the factory of Paju city

2016 Method for preparing rosin ester composition, rosin ester composition and
cosmetic composition comprising the rosin ester composition.
Application for the patent of rosin ester
Advance into overseas
market**(Indonesia,Turkey,Thailand,France,Italy etc.)**

2015 Obtain a Venture capital enterprise certification

Establish Luxon Fine Chemical Co.,Ltd
(**Shanghai Branch**)

2014 Obtain a Qualification of **Research Institute** for enterprise

Obtain Several Patents
Obtain **ISO9001/ISO14001**

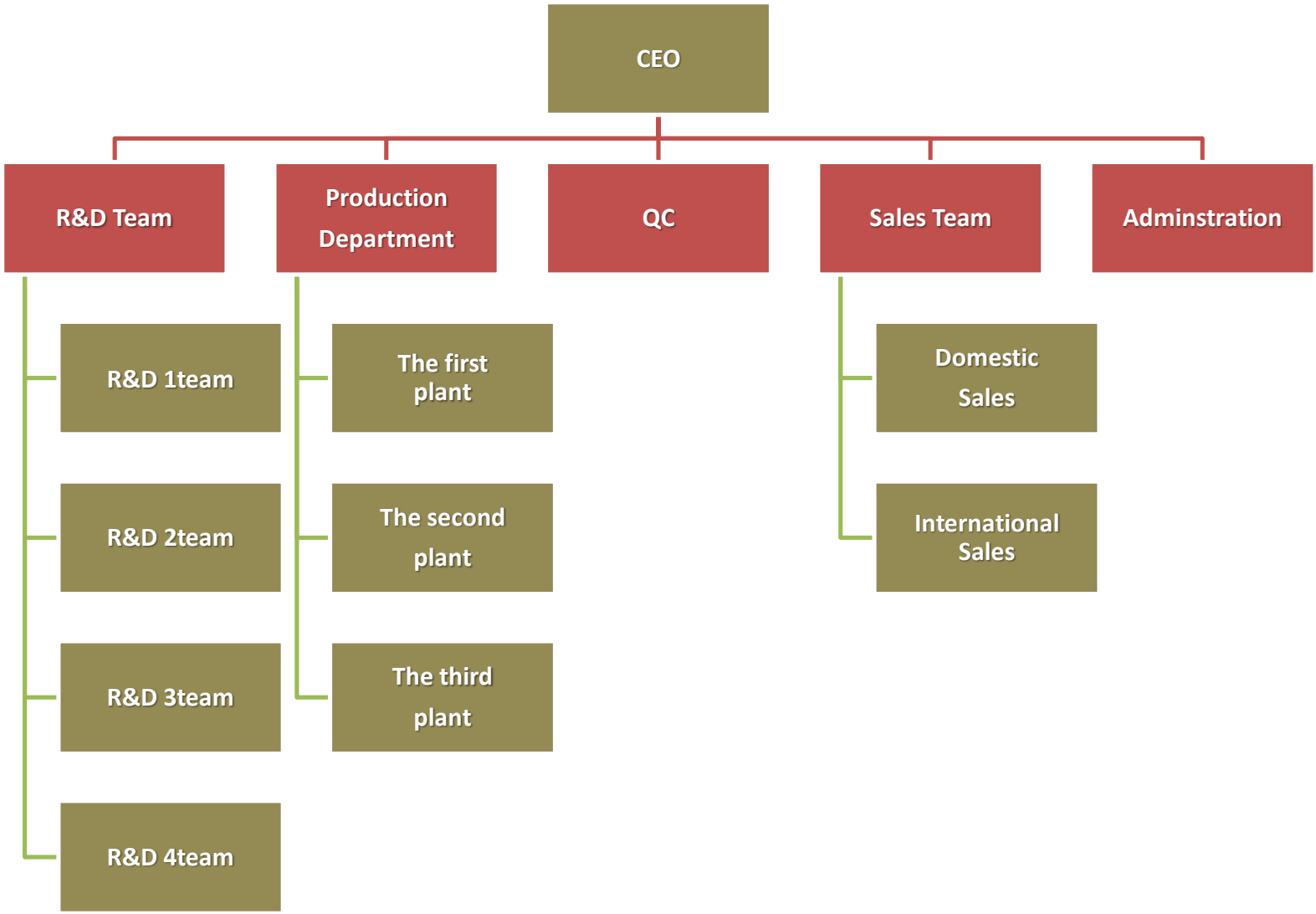
2009 Established the 2nd factory in **HuZhou city**, **China** and start the surface coating production line

2008 Successfully developed technology of producing silica powder in **Korea factory**

2007 Established the 1st powder & coating factory and successfully developed special G.D.R surface coating system in **Gimpo city of Korea**

2005 Established **Luxon Chemical Korea Trade Company**

2. Organization chart, Flow Chart Our Product, R&D



2. Organization chart, Flow Chart Our Product, R&D

- Innovative Products
- High Quality Product
- Stable Supply

Strengthening

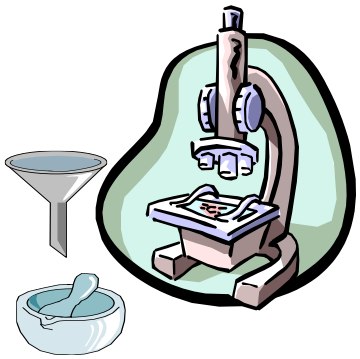
- R & D

ISO 9001:2015

- System

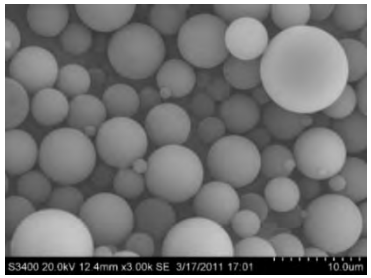
Strictly

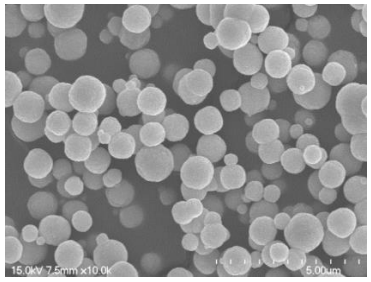
- QC & QA



TOP Level

- LUXON Products

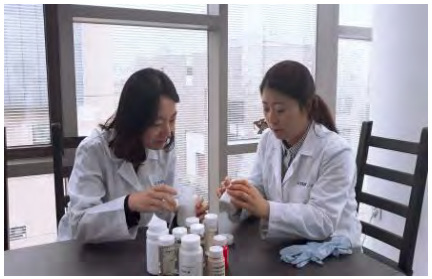




2. Organization chart, Flow Chart Our Product, R&D

Research Activities






Patent Pending

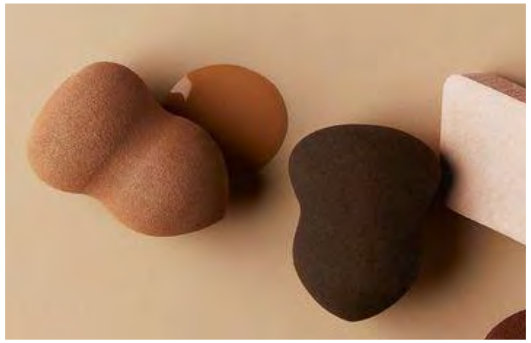
Domestic, Foreign	Patent name	Application Number Patent Number	Date
Domestic	Method for preparing **rosin ester** composition, rosin ester composition and cosmetic composition comprising the rosin ester composition	10-2016-0056640 10-1868052	2016.05.09 2018.06.08
Domestic	A powder surface coating method using Gravity Drop Rotation **coating system**	10-2017-0172013	2017.12.14
Domestic	Porous sphere type **zinc oxide powder**, manufacturing method thereof and cosmetic composition comprising the same	10-2018-0154085 10-20347830000	2018.12.04 2019.10.22
Domestic China	**A spherical zinc oxide powder** coated with natural materials, manufacturing method thereof and cosmetic comprising the same	10-2018-0171350 10-1994980 CN110613625B ZL201911059904.0	2018.12.27 2019.06.25 2019.11.01
new Domestic	**Inorganic powder with enhanced hydrophobicity**, manufacturing method thereof and cosmetic comprising the same	10-2020-0075958 1023706900000	2020.06.22 2022.02.28
new Domestic	**Inorganic powder with enhanced hydrophobicity**, manufacturing method thereof and cosmetic comprising the same	10-2022-0026190 102408850	2022.02.28 2022.06.09

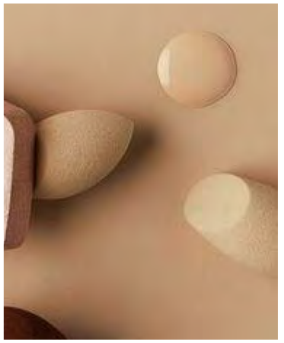
Luxon Test Method

NO	TEST Method
LXTM-001	Residual organic material
LXTM-002	Loss on drying
LXTM-003	Oil absorption
LXTM-004	PH Test
LXTM-005	Particle size distribution (Marlvern Master sizer)
LXTM-006	Loss on ignition
LXTM-007	Hydrophobicity
LXTM-008	Electric conductivity
LXTM-009	Thickener compatibility test
LXTM-010	Acid value
LXTM-012	Viscosity test
LXTM-013	Refractive index
LXTM-014	Color measurement
LXTM-016	Particle size distribution (Beckman coulter)

Spherical Powders Technology

Version 3.2





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Spherical Silica Powder

Silica Series

	Trade Name	INCI NAME	Character
Silica	SILIA LX3	Silica	D50 : 1.5 ~ 4.5 um || OA : 110 ~ 150
	SILIA LX7	Silica	D50 : 7.0 ~ 11.0 um || OA : 130 ~ 180
	SILIA LX13	Silica	D50 : 10.0 ~ 15.0 um || OA : 130 ~ 180
	SPHESTA SB606	Silica	D50 : 4.5 ~ 7.5 um || OA : 40 ~ 90
	SPHESTA SB609	Silica	D50 : 5.0 ~ 8.0 um || OA : 60 ~ 100
	SPHESTA MD6	Silica	D50 : 5.0 ~ 8.0 um || OA : 90 ~ 130
	SPHESTA MD7	Silica	D50 : 5.0 ~ 8.0 um || OA : 90 ~ 130
	SPHESTA HS10	Silica	D50 : 8.0 ~ 15.0 um || OA : 230 ~ 270
	LX TIS - 35	Silica & TiO2	D50 : 5.0 ~ 10.0 um || OA : 90 ~ 130

Coated Silica Series

	Trade Name	INCI NAME	Character
Coated Silica	SILIA LX7 ASM	Silica & Triethoxycaprylylisilane	D50 : 7.0 ~ 11.0 um
	SPHESTA MD7 AM	Silica & Lauroyl Lysin	D50 : 5.0 ~ 9.0 um || OA : 80 ~ 120
	SPHESTA MD6 ASM	Silica & Triethoxycaprylylisilane	D50 : 5.0 ~ 8.0 um
	SPHESTA MD6 MSM	Silica & Methicone	D50 : 5.0 ~ 8.0 um
	SPHESTA MD6 DSM	Silica & Dimethicone	D50 : 5.0 ~ 8.0 um
	SPHESTA ECO 3	Silica & Lauryl Alcohol & Cetyl Alcohol	D50 : 1.5 ~ 4.5 um || OA : 50 ~ 90
	SPHESTA ECO 7	Silica & Lauryl Alcohol & Cetyl Alcohol	D50 : 7.0 ~ 11 um || OA : 50 ~ 90
	SPHESTA ECO H10	Silica & Lauryl Alcohol & Cetyl Alcohol	D50 : 10.0 ~ 15.0 um || OA : 170 ~ 210
	PHILICSTA MD7	Silica & Phytic Acid	D50 : 5.0 ~ 9.0 um || OA : 50 ~ 90
	Water Powder LX7	Silica & Poly methyl silsequioxane	D50 : 5.0 ~ 9.0 um || OA : 60 ~ 140
	LX TIS – 35 AS	Silica & TiO2 & Triethoxycaprylylisilane	D50 : 5.0 ~ 10.0 um || OA : 80 ~ 120
	EMBO SILICA	Silica & Poly methyl silsequioxane	D50 : 5.0 ~ 11.0 um || OA : 60 ~ 140

NEW

Spherical Polymer Powder

Polymer Series

	Trade Name	INCI NAME	Character
PMMA	LX PMMA PR7	Poly methyl methacrylate	D50 : 5.0 ~ 9.0 um || OA : 30 ~ 70
PMSQ	LX PMSQ P50	Poly methyl silsequioxane	D50 : 5.0 um || OA : 40 ~ 60
PMSQ	LX PMSQ P100	Poly methyl silsequioxane	D50 : 10.0 um || OA : 40 ~ 60

Silicon Powder

	Trade Name	INCI NAME	Character
Silicon Powder	ELASTA SP101	Vinyl Dimethicone / Methicone Silsesquioxane Crosspolymer	D50 : 8.0 ~ 15.0 um || OA : 60 ~ 100
NEW	ELASTA HSP101	Vinyl Dimethicone / Methicone Silsesquioxane Crosspolymer	D50 : 8.0 ~ 15.0 um || OA : 60 ~ 100

Zinc Oxide Powder

	Trade Name	INCI NAME	Character
ZnO	SS-2000	Zinc Oxide & Triethoxycarylylsilane	D50 : 1.0 ~ 3.0 um

Silica (Non Coated, Coated)

Spherical Silica Powder

Spherical Porous Silica powder

High Purity

Sebum Control

Semi-transparent

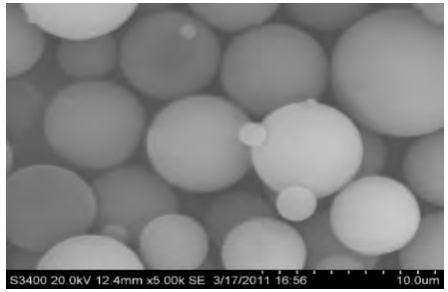
Soft focus effect

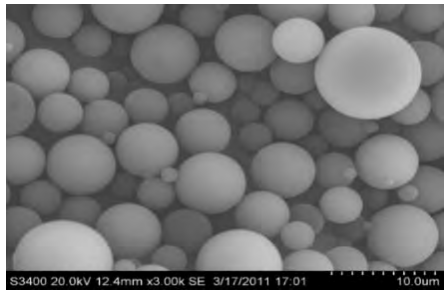
Smooth feeling

EU REACH

Ecocert

COSMOS APPROVED





COSMOS-standard Definition

- **PPAI** = **Physically** Processed Agro-Ingredient / Agro-Ingrédient **Physiquement** Transformé
- **CPAI** = **Chemically** Processed Agro-Ingredient / Agro-Ingrédient **Chimiquement** Transformé
- **SyMo** = Synthetic Moieties / Greffons Synthétiques
- **NNI** = **Non Natural** Ingredient /Ingrédients **Non Naturels**

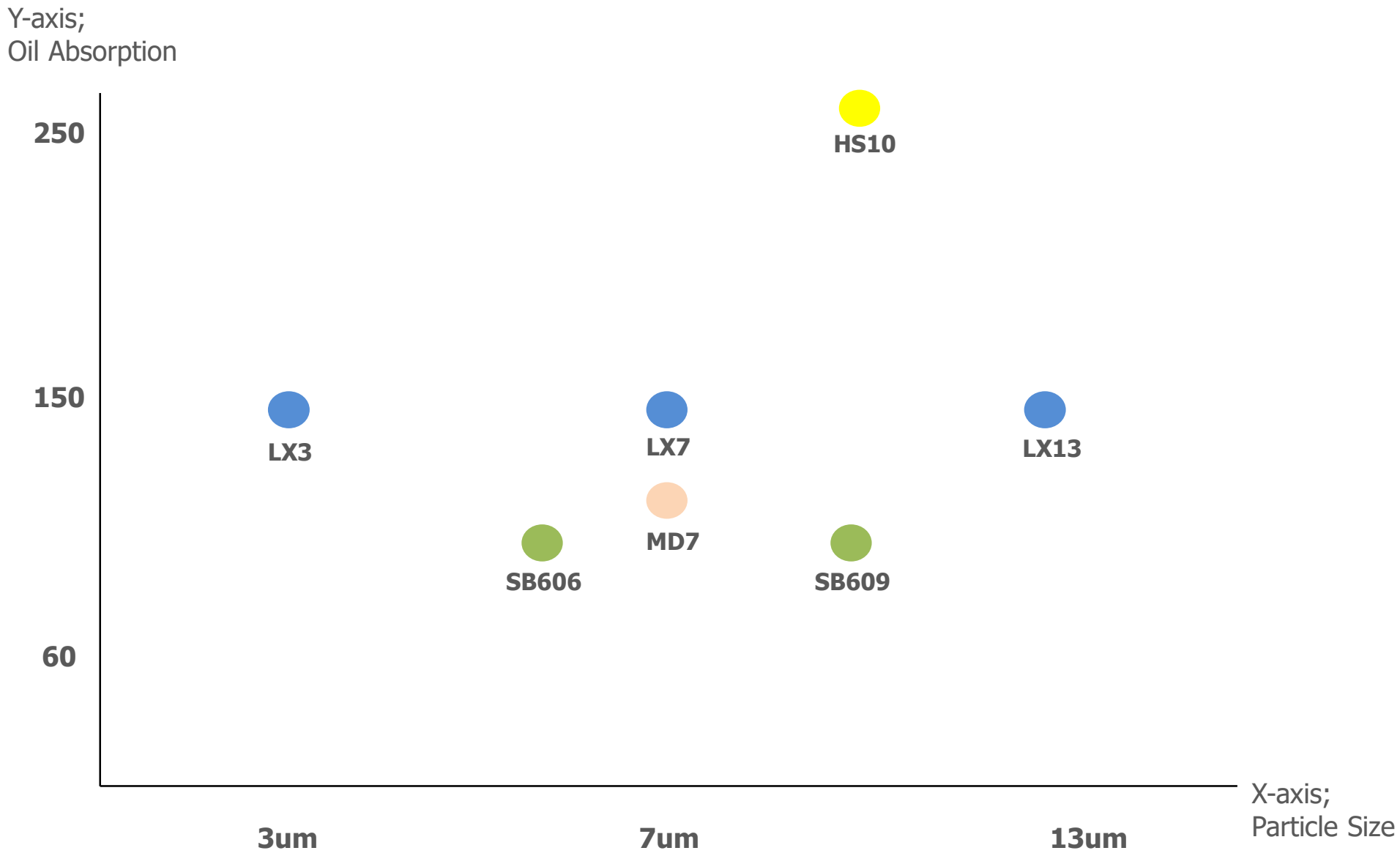
- * = concerned by appendices II and/or V

Number of Raw Materials found / Nombre de Matières Premières trouvées : 1

Cancel Filters / Annuler les filtres

SILIA	silica							< - ALL - >	< - ALL - >
COMMERCIAL NAME / NOM COMMERCIAL	INCI	FUNCTION	COSMOS-standard PPAI	COSMOS-standard CPAI	COSMOS-standard SyMo	COSMOS-standard NNI	COSMOS-standard Restriction	COMPANY / SOCIETE	APPROVED BY
SILIA/SPHESTA	Silica	Smoothness function in compact powder	0	0	0	0		LS CHEM KOREA CO.,LTD.	ECOCERT

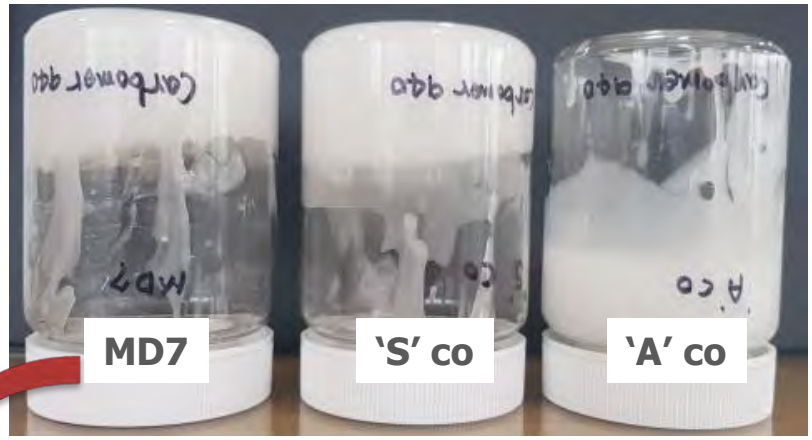
User Guideline of SHPESTA, SILIA Series, Non coating silica



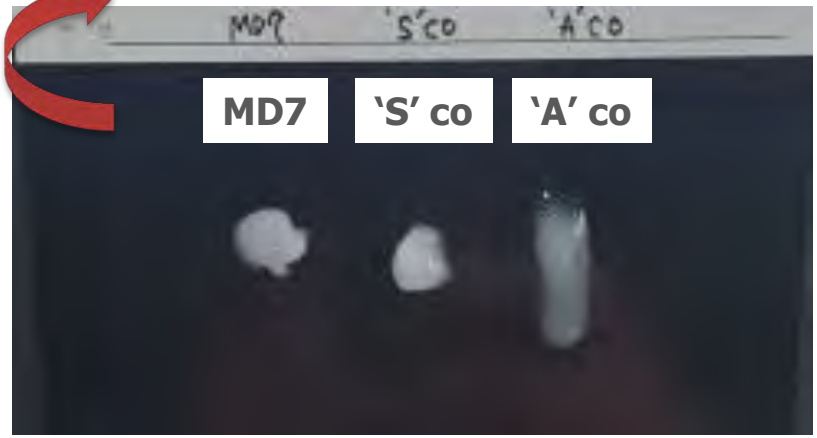
Thickener compatibility TEST Carbopol 940

LUXON

TEST Results



Excellent
Thickener Compatibility



Analysis recipe

Part	Ingredients	%
A	D.I-Water	76.5
	Carbopol 940 1% sol.	17.0
B	D.I-Water	1.0
	TEA	0.5
C	Powder	5.0

Must proceed to Pure Water.

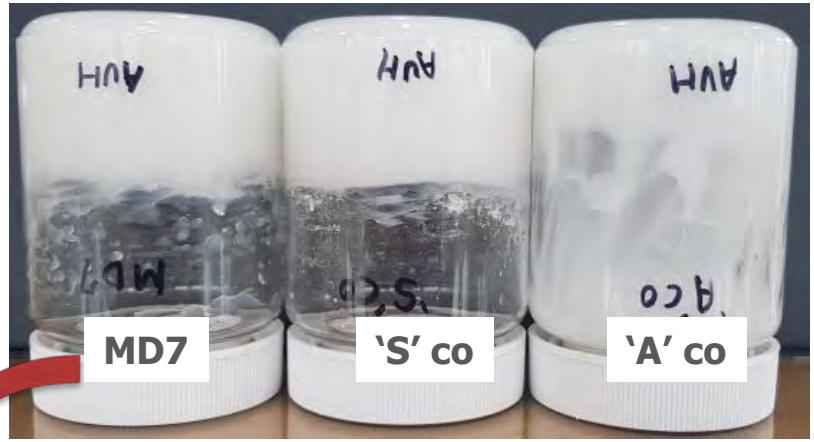
TEST Method

1. Prepare 200ml beaker
2. Carbopol 940 1% solution prepared in advance
3. Manufactured A Phase and prepared for the first time.
4. Manufacture B Phase and put it into A Phase.
5. Manufactured at maximum rpm of stirrer
6. Understand the flowability of the final Phase.

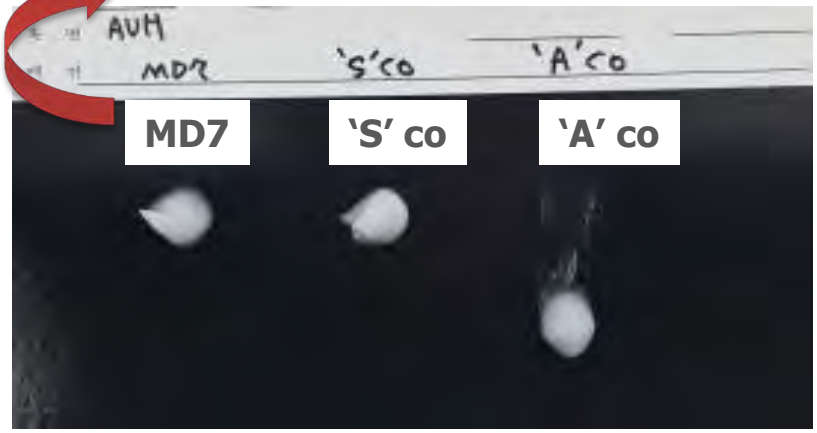
Thickener compatibility TEST RHEOSOL AVH

LUXON

TEST Results



Excellent
Thickener Compatibility



Analysis recipe

Part	Ingredients	%
A	D.I-Water	94.0
	RHEOSOL AVH	1.0
B	Powder	5.0

Must proceed to Pure Water.

TEST Method

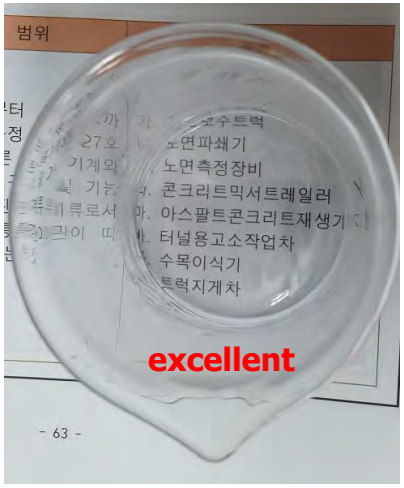
1. Manufactured A Phase
2. Put B Phase into A Phase.
3. Manufactured at maximum rpm of stirrer
4. Understand the flowability of the final Phase.

Transparency Test of Silica

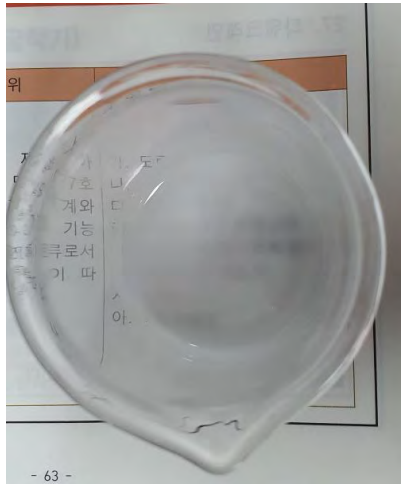
LUXON

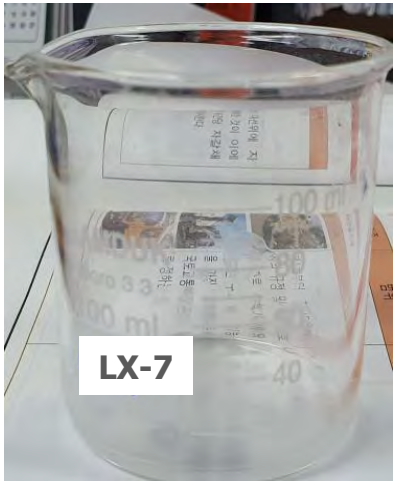
LX-7

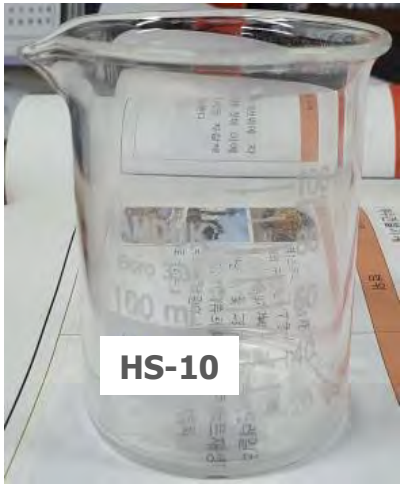
HS-10



Competitor





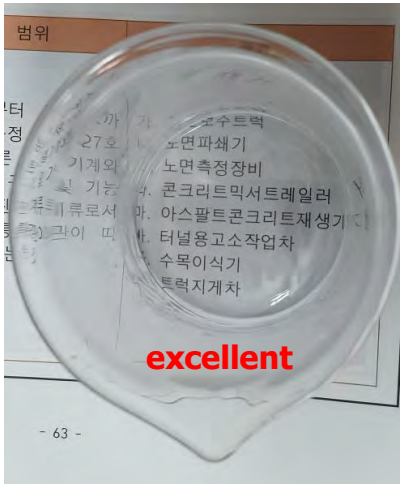
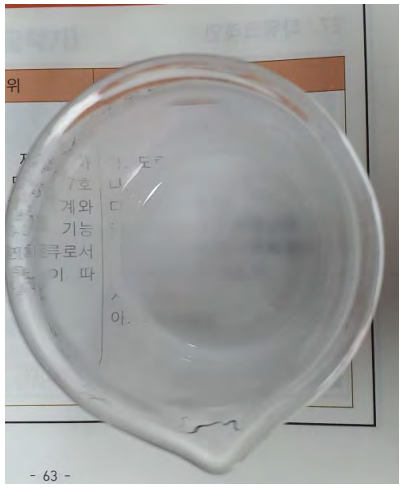
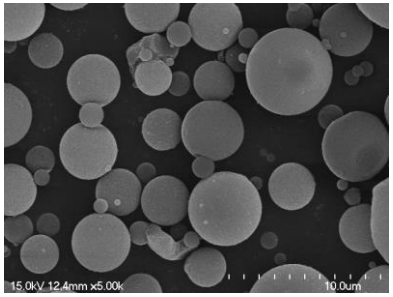
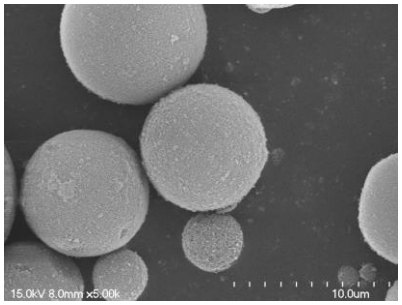
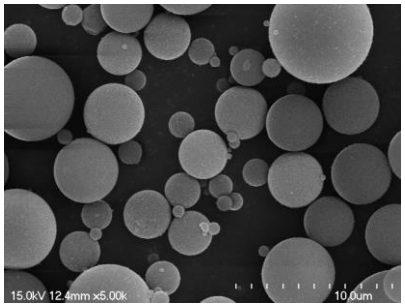
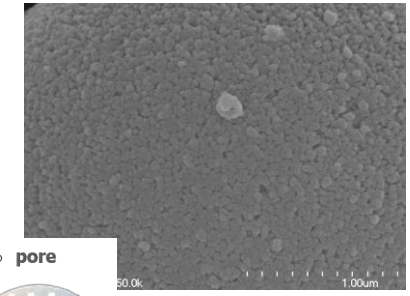
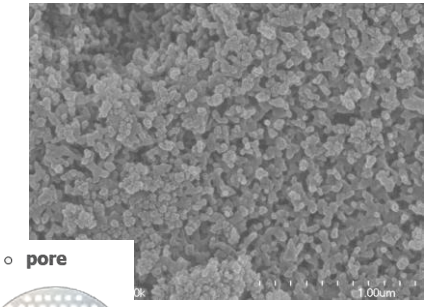
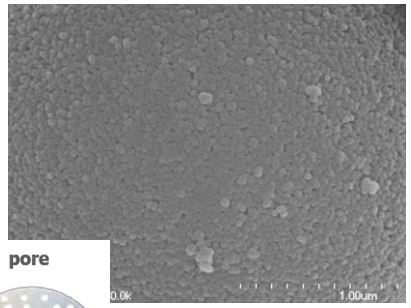


TEST Method

1. Put Liquid Paraffin 2g in 100ml beaker
2. Put test Powder.
3. Mix the spatula

Transparency Test of Silica

LUXON

	LX-7	HS-10	Competitor
			
X5000			
X50000			
	○ pore 	○ pore 	○ pore 

Formulation_sebum control Powder

Formulation for SEBUM control powder in use SPHESTA (SILIA) Series

Phase	Trade Name	INCI	%
A	**SPHESTA MD7**	**Silica**	**56.75**
	HICOS GTC	Caprylic/Capric Triglyceride	5.00
B	Dry Flo PC	Aluminum Starch Octenylsuccinate	25.00
	ELASTA SP 101	Vinyl Dimethicone/Methicone Silsesquioxane Crosspolymer	10.00
	LX Mica DSM	Mica, Dimethicone	3.00
C	Spectrastat	Caprylhydroxamic Acid/Caprylyl Glycol/Glycerin	0.15
	Perfume		0.10
			100.0

Key Ingredients

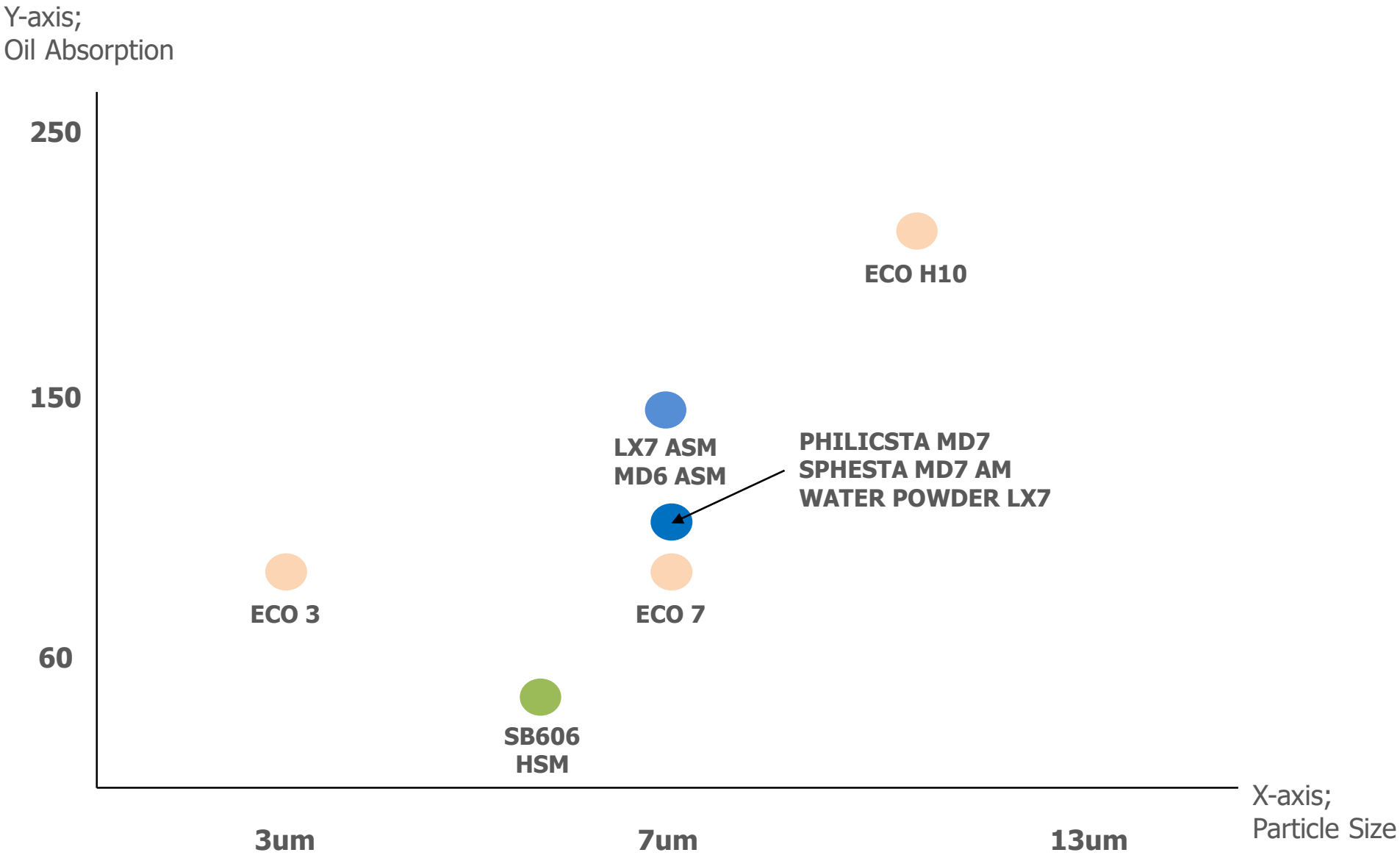
SPHESTA MD7
LX Mica DSM
ELASTA SP 101

Ingredient

Silica, Corn Starch modified, Dimethicone, Vinyl Dimethicone Crosspolymer, Caprylic/Capric Triglyceride, **Mica**, Methicone, Mineral Salts, Camellia Sinensis Leaf Extract,. Mentha Arvensis Leaf Extract
Ethylhexylglycerin, Glyceryl caprylate, Ethylene/Acrylic Acid Copolymer, 1,2-Hexanediol, Fragrance

Silica (Coated)

User Guideline of SHPESTA, SILIA Series, Coated silica



Microbeads Issue

EU proposes ban on 90% of microplastic pollutants

LUXON

EU proposes ban on 90% of microplastic pollutants

European Chemicals Agency draft law aims to cut 400,000 tonnes of plastic pollution

▲ A marine biologist holds up a sample of seawater containing microplastics. Photograph: Eric Gaillard/Reuters

A wide-ranging ban on microplastics covering about 90% of pollutants has been proposed by the EU in an attempt to cut 400,000 tonnes of plastic pollution in 20 years.

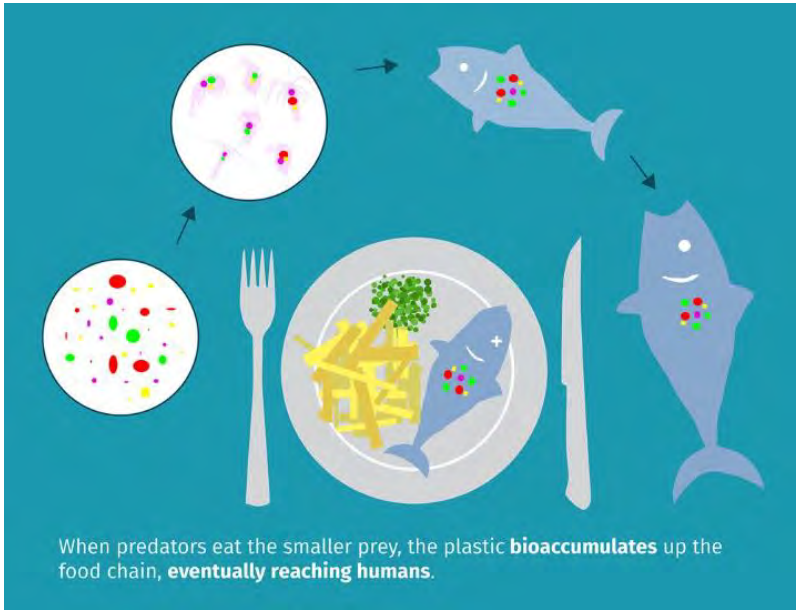
Cosmetics, detergents, paints, polish and coatings would all require design overhauls, as would products in the construction, agriculture and fossil fuels sectors.

The draft law targets microplastics that are not necessary but have been added to products by manufacturers for convenience or profit.

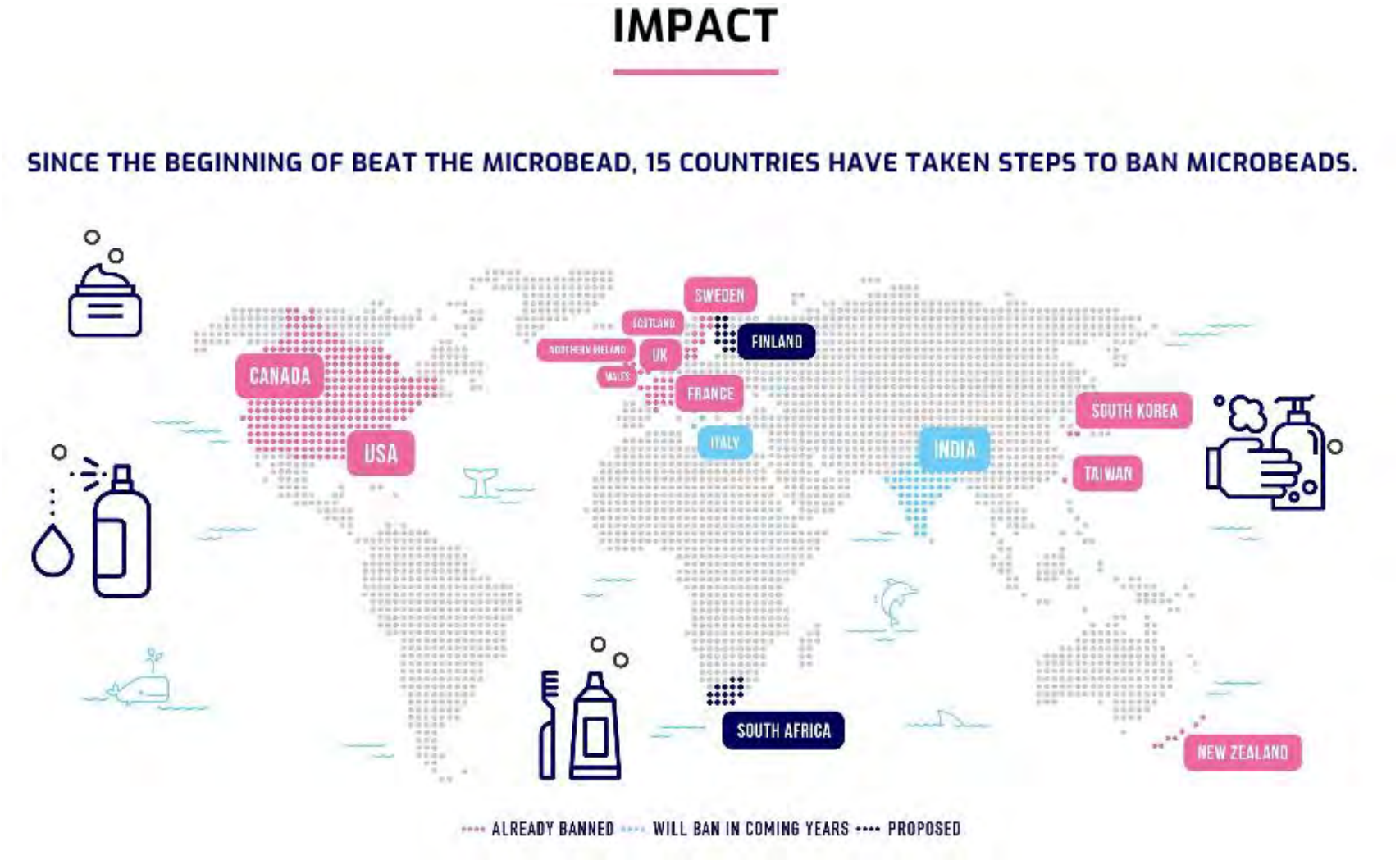
Baskut Tuncak, the UN's special rapporteur on hazardous substances and wastes, said: "Microplastics are a growing concern to a number of human rights. The steps proposed by Echa are necessary to help ensure present and future generations can enjoy what is their human right: a clean, healthy and sustainable environment."

https://www.theguardian.com/environment/2019/jan/30/eu-european-union-proposes-microplastics-ban-plastic-pollution

Micro Beads Problems



Plastic in cosmetics is a design error



https://www.plasticsoupfoundation.org/en/what-we-do/microplastics/beat-the-microbead/

Have taken action towards ban on microbeads

State	Sales ban effective date	Scope
Argentina	29 December 2022	Ban on the import, manufacture and sale of microbeads in cosmetics.[39]
Canada	1 January 2018	Ban on microbeads smaller than 5 mm in size.
China	31 December 2022	Ban on sale, following a ban on production two years earlier (31 December 2020).[40]
France	1 January 2018	Ban on import, manufacture and sale of microbeads in rinse-off cosmetics.[41]
India	1 January 2020	Ban on microbeads in rinse-off cosmetics.[42]
Ireland	20 February 2020	Ban on microbeads in rinse-off cosmetics.[43]
Italy	1 January 2020	Ban on microbeads in rinse-off cosmetics.[44][45]
Netherlands	End of 2016	Ban on import, manufacture and sale of microbeads in rinse-off cosmetics.
New Zealand	7 June 2018	Ban on import, manufacture and sale of microbeads in rinse-off cosmetics.[46]
South Korea	1 July 2017	Ban on sale of microbeads in cosmetics.[47]
Sweden	1 January 2019	Ban on sale of microbeads in rinse-off cosmetics, following an earlier ban on import and manufacture (1 July 2018).[48]
Taiwan	1 July 2018	Ban on sale of microbeads in rinse-off cosmetics, following an earlier ban on import and manufacture (1 January 2018).[49]
Thailand	1 January 2020	Ban on import, manufacture and sale of microbeads in rinse-off cosmetics.[50]
United Kingdom	1 October 2018	Ban on the use of microbeads in rinse-off cosmetics and personal care products. England and Scotland (19 June 2018), Wales (30 June 2018), Northern Ireland (1 October 2018).
United States	1 July 2017	Ban on manufacture of rinse-off cosmetics microbeads at the federal level.

https://en.m.wikipedia.org/wiki/Microbead

Our Proposal

	SPHESTA SB606 HSM	SPHESTA MD7 AM (NEW)	SPHESTA ECO 3 (NEW)	SPHESTA ECO 7 (NEW)	SPHESTA ECO H10 (NEW)	SS-2000 (NEW)
Type	Spherical powder	Spherical powder	Spherical Powder	Spherical Powder	Spherical Powder	Spherical Powder
Natural & Artificial	Artificial	Natural	Natural	Natural	Natural	Artificial
INCI	Silica & Hydrogen Dimethicone	Silica & Lauroyl Lysin	Silica & Lauryl Alcohol & Cetyl Alcohol	Silica & Lauryl Alcohol & Cetyl Alcohol	Silica & Lauryl Alcohol & Cetyl Alcohol	Zinc Oxide & Triethoxycarylylsilane
CAS. NO	7631-86-9 & 68037-59-2	7631-86-9 & 52315-75-0	7631-86-9 & 112-53-8 & 36653-82-4	7631-86-9 & 112-53-8 & 36653-82-4	7631-86-9 & 112-53-8 & 36653-82-4	1314-13-2 & 2943-75-1
Particle Size (um)	4.5 ~ 7.5	5.0 ~ 9.0	1.5 ~ 4.5	7.0 ~ 11	10.0 ~ 15.0	1.0 ~ 3.0
Oil Absorption	55	80 ~ 120	50 ~ 90	50 ~ 90	170 ~ 210	50 ~ 70
Hydrophobicity [LXTM-007]	3.5 min	2.5 min	3.5 min	3.5 min	3.5 min	3.5 min

Our Proposal of Glossy Essense (O/W)

Feature

Moist Feeling, Velvety Skin

Lab No.: HTV01216ES-GL(A01)

PHASE	INGREDIENTS	INCI	%
A	D.I.WATER	Water	TO100
	Glycerin	Glycerin	6.00
	Hyalgan LL	Hyaluronic acid	0.01
	MOILUB 1000	Biosaccharide Gum-1	5.00
	MOILUB 701A	PEG/PPG-17/6 Copolymer	5.00
	TWEEN 60	Polysorbate 60	1.50
A-1	Water	Water	10.00
	Keltrol F	Xanthan gum	0.10
B	LX PMSQ P100	Polymethylsilsesquioxane	3.00
	Nylon	Nylon-12	1.00
	LX MICA (S) ASM	Mica, Triethoxycaprylylsilane	0.50
	DC245	Cyclopentasiloxane	3.50
	Moicos N115	Methyl hydrogenated rosinate	3.50
	CRODAMOL™ GTCC	Caprylic/Capric Triglyceride	1.00
C	SIMULGEL™ EG	Sodium Acrylate / Sodium Acryloyldimethyl Taurate Copolymer / Isohexadecane / Polysorbate 80	1.50
D	Natureclean RP9	Raspberry Ketone/Propanediol	2.50

Standard Operating Procedures

1. Heat phase A to 80℃
2. After stirring A-1, put into A phase
3. After stirring phase B, put into phase A
   Homo mix at 3000RPM for 10 min
4. After input of C phase, homo mix at 3000RPM for 5 min
5. Put D-phase at 45℃
6 Finish after 35 ℃ cooling

Key Ingredients our products

LX PMSQ P100
LX MICA (S) ASM

Commend
MOILUB 1000
MOILUB 701A
MOICOS N115

Reference : None

Our Proposal of Glossy Essense (O/W)

Feature

Moist Feeling, Velvety Skin

Lab No.: HTV01216ES-GL(A02)

PHASE	INGREDIENTS	INCI	%
A	D.I.WATER	Water	TO100
	Glycerin	Glycerin	6.00
	Hyalgan LL	Hyaluronic acid	0.01
	MOILUB 1000	Biosaccharide Gum-1	5.00
	MOILUB 701A	PEG/PPG-17/6 Copolymer	5.00
	TWEEN 60	Polysorbate 60	1.50
A-1	Water	Water	10.00
	Keltrol F	Xanthan gum	0.10
B	LX SS 2000	Zinc Oxide	4.00
	LX MICA (S) ASM	Mica, Triethoxycaprylylsilane	0.50
	DC245	Cyclopentasiloxane	3.50
	Moicos N115	Methyl hydrogenated rosinate	3.50
	CRODAMOL™ GTCC	Caprylic/Capric Triglyceride	1.00
C	SIMULGEL™ EG	Sodium Acrylate / Sodium Acryloyldimethyl Taurate Copolymer / Isohexadecane / Polysorbate 80	1.50
D	Natureclean RP9	Raspberry Ketone/Propanediol	2.50

Standard Operating Procedures

1. Heat phase A to 80℃
2. After stirring A-1, put into A phase
3. After stirring phase B, put into phase A
   Homo mix at 3000RPM for 10 min
4. After input of C phase, homo mix at 3000RPM for 5 min
5. Put D-phase at 45℃
6 Finish after 35 ℃ cooling

Key Ingredients our products

LX SS 2000

Commend

MOILUB 1000

MOILUB 701A

MOICOS N115

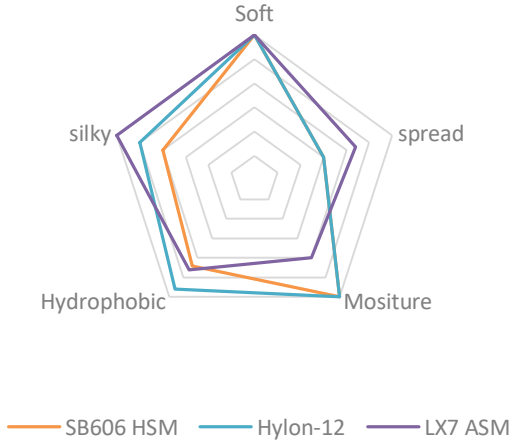
Reference : None

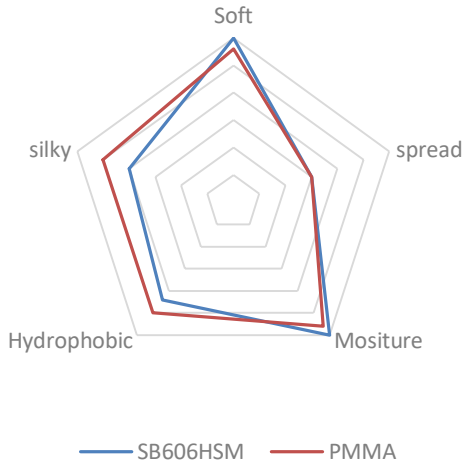
SB606 HSM & Nylon-12

SB606 HSM & Nylon-12

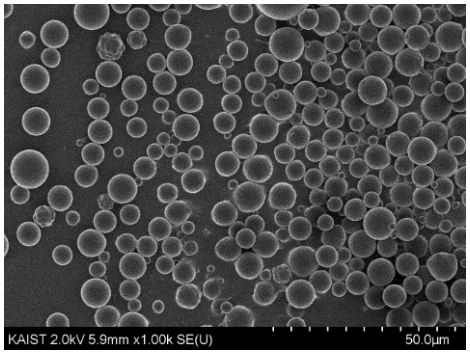
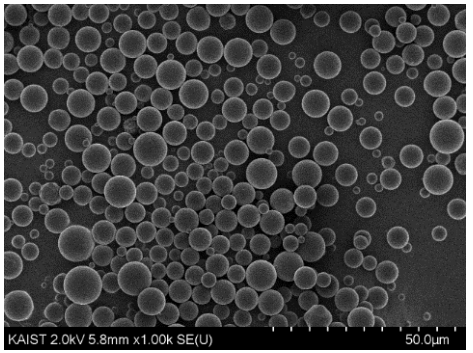
	SPHESTA SB606 HSM	Nylon-12(T co,Ltd)
Type	Spherical powder	Spherical powder
INCI	Silica & Hydrogen Dimethicone	Nylon-12
CAS. NO	7631-86-9 & 68037-59-2	25038-74-8
Particle Size	4.5 ~ 7.5 um	5.0 ~7.0um
Oil Absorption	50 ~ 90	50 ~ 90
Hydrophobicity [LXTM-007]	3.5	5.0

Blind Test 20 person
(2018 Jan)





SPHESTA SB606HSM_comparison analysis

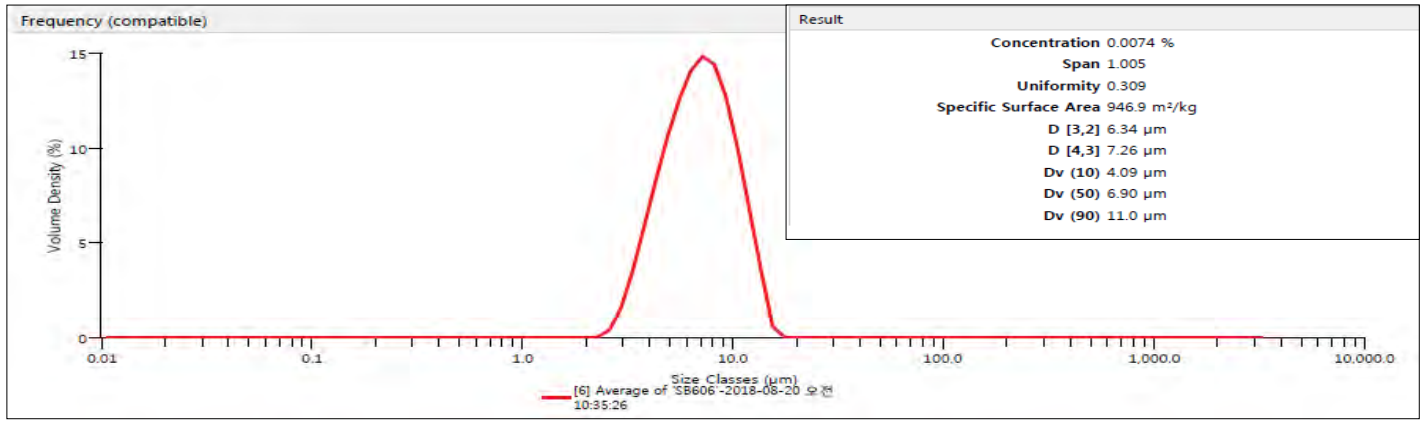
	① : SPHESTA SB606 HSM	② : Nylone-12
Manufacturer	LUXON	'S' company
Loss on Drying	0.65%	0.76%
Hydrophobicity	5	5
Median Size (㎛)	6.90	7.88
PH	7.30	7.50
Oil Absorption	53	57
SEM		
Heat Resistance (130℃ 30min)	Yellow Index 3.01 	Yellow Index 6.12 

Comparison Analysis

Analysis equipment : Malvern Instruments

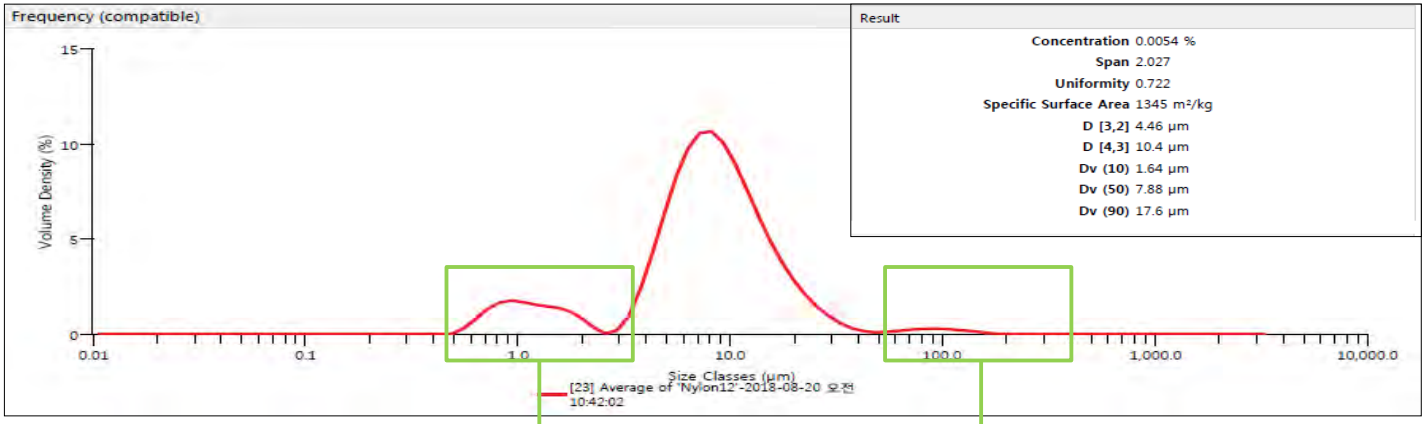
① : SPHESTA SB606 HSM (LUXON)

Results	
D50	6.90 ㎛
D90	11.00 ㎛



② : Nylone-12 ('S' company)

Results	
D50	7.88 ㎛
D90	17.60 ㎛



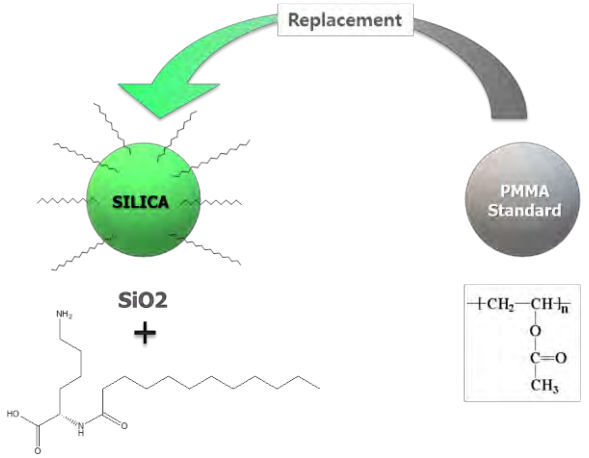
 # Side Effect : particle aggregation, rough feeling

NEW

SPHESTA MD7 AM

SPEC of SPHESTA MD7 AM

	SPHESTA MD7 AM	PMMA Standard
Type	Spherical powder	Spherical powder
INCI	Silica & Lauroyl Lysin	Poly methyl methacrylate
CAS. NO	7631-86-9 & 52315-75-0	9011-14-7
Particle Size	5.0 ~ 9.0 um	5.0 ~ 10.0um
Oil Absorption	80 ~ 120	50 ~ 90
Hydrophobicity [LXTM-007]	2.5 Min	3.0 Min



01 **Sensory**
Most similar to Plastic Powder

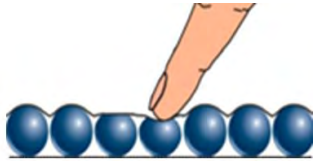
02 **Natural source**
Coating agent : Lauroyl Lysin

03 **Selective Sebum Control**
Fast Absorption

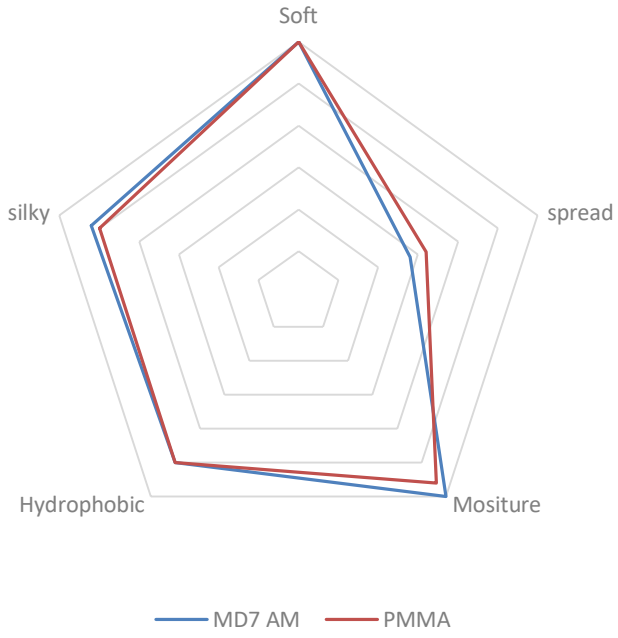
Sensory TEST

01 Sensory

Most similar to Plastic Powder



Blind Test 20 person
(2021 Jan)



MD7 AM

Standard
PMMA

Selective Sebum Control TEST

LUXON

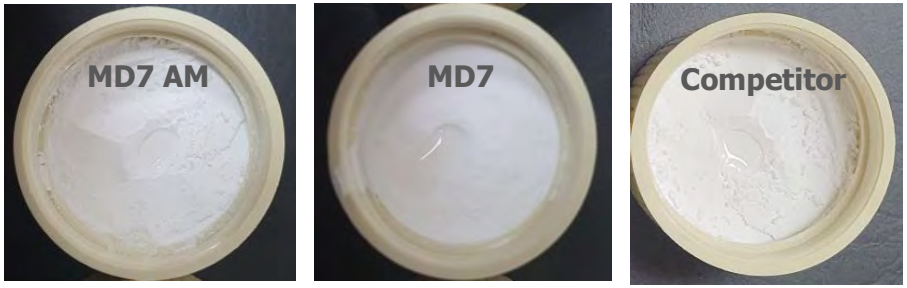
Loose Powder Formulation - HTU0122LP-FA02

Phase	Trade Name	INCI	MD7 AM	MD7	Competitor silica
A	SPHESTA MD7 AM	Silica & Lauroyl Lysin	65.5		
	SPHESTA MD7	Silica		65.5	
	Competitor Silica	Silica			65.5
	ELASTHA SP 101	Vinyl Dimethicone/methicone Silsesquioxane Crosspolymer	1	1	1
	LX Glight 1000	Boron Nitride &Triethoxycaprylylsilane	2.0	2.0	2.0
	LX PMSQ P50	Polymethylsilsesquioxane	10.0	10.0	10.0
	LX PMMA PR7	Polymethylmethacrylate	15.0	15.0	15.0
B	Dimethicone 100cs	Dimethicone	1.0	1.0	1.0
	DC 556	Phenyl Trimethicone	5.0	5.0	5.0
	GMCY	Glyceryl Caprylate	0.3	0.3	0.3
	Phenoxy Ethanol	Phenoxy Ethanol	0.2	0.2	0.2
			0.007	0.007	0.007
			100.0	100.0	100.0

Standard Operating Procedures

1. Weigh A and Mix it
2. Weigh B and Mix it
3. Input B into A
   → Mixer 3,000rpm
   ; 15Sec, 3times
4. Filter by 100 Mesh

Add Liquid Paraffin & Check after 5min



Fast absorption | Normal absorption | Normal absorption

SPHESTA ECO 3, ECO 7
& PMMA Standard

SPHESTA ECO 10
& POROUS PMMA

SPEC of SPHESTA ECO7, ECO3

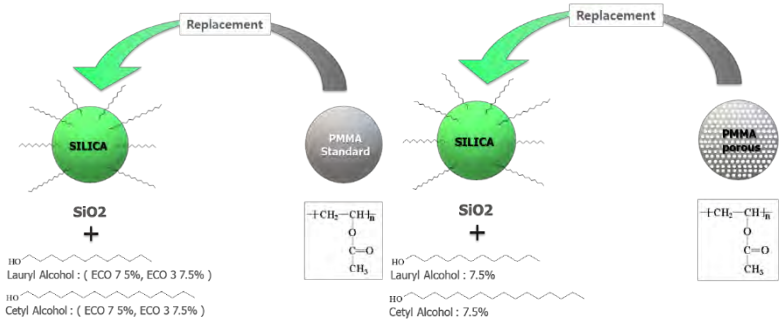
	SPHESTA ECO 3	SPHESTA ECO 7	PMMA Standard	SPHESTA ECO H10	PMMA Porous type
Type	Spherical powder	Spherical powder	Spherical powder	Spherical powder	Spherical powder
INCI	Silica & Lauryl Alcohol & Cetyl Alcohol	Silica & Lauryl Alcohol & Cetyl Alcohol	Poly methyl methacrylate	Silica & Lauryl Alcohol & Cetyl Alcohol	Poly methyl methacrylate
CAS. NO	7631-86-9 & 112-53-8 & 36653-82-4	7631-86-9 & 112-53-8 & 36653-82-4	9011-14-7	7631-86-9 & 112-53-8 & 36653-82-4	9011-14-7
Particle Size	1.5 ~ 4.5 um	5.0 ~ 10.0 um	5.0 ~ 10.0um	10.0 ~ 15.0 um	5.0 ~ 10.0um
Oil Absorption	50 ~ 90	50 ~ 90	50 ~ 90	170 ~ 210	170 ~ 210
Hydrophobicity [LXTM-007]	3.5 Min	3.5 Min	3.0	3.5 Min	4.0 Min

Similar SPEC **Similar SPEC**

01 **Replacement of Plastic beads**
Poly Methyl Methacrylate standard beads grade replacement

02 **Natural source**
Coating agent : Lauryl Alcohol and Cetyl Alcohol

03 **Selective sebum control**
Excellent / Fast Absorption / High Oil Absorption



Selective Sebum Control Test

Selective sebum control

LUXON

SPHESTA ECO 3 (Natural)

After input 3min

Water | Cyclopentasiloxane | Liquid Paraffin

SPHESTA ECO 7 | SPHESTA ECO 7 | SPHESTA ECO 7

PMMA Standard

After input 3min

Water | Cyclopentasiloxane | Liquid Paraffin

PMMA Standard | PMMA Standard | PMMA Standard

SPHESTA ECO 7 (Natural)

After input 3min

Water | Cyclopentasiloxane | Liquid Paraffin

SPHESTA ECO 3 | SPHESTA ECO 3 | SPHESTA ECO 3

SILICA Standard

After input 3min

Water | Cyclopentasiloxane | Liquid Paraffin

SILICA STANDARD | SILICA STANDARD | SILICA STANDARD

SPHESTA ECO H10

After input 3min

Water | Cyclopentasiloxane | Liquid Paraffin

SPHESTA ECO H10 | SPHESTA ECO H10 | SPHESTA ECO H10

PMMA Porous type

After input 3min

Water | Cyclopentasiloxane | Liquid Paraffin

PMMA Porous | PMMA Porous | PMMA Porous

Formulation_Powder Pact

PHASE	Ingredient	INCI	%
A	LX TALC 46R ASM	Talc, Triethoxycaprylylsilane	TO100
	SPHESTA ECO 7	Silica, Lauryl Alcohol, Cetyl Alcohol	20.00
	ELASTA SP101	VINYL DIMETHICONE/METHICONE SILSESQUIOXANE CROSSPOLYMER	2.00
B	LX BIANCO 200	Titanium Dioxide, Triethoxycaprylylsilane	10.00
	LX IOY ASM LX IOR ASM LX IOB ASM	Iron Oxide, Triethoxycaprylylsilane	p.s
D	Preservative DM 100	Phenoxy ethanol, Ethylhexylglycerin Dimethicone	p.s 3.00

Key Ingredients

LX TALC 46R ASM
SPHESTA ECO 7
ELASTA SP101

LX BIANCO 200
LX IOY ASM
LX IOR ASM
LX IOB ASM

PHASE	Ingredient	INCI	%
A	LX TALC 46R ASM	Talc, Triethoxycaprylylsilane	TO100
	LX PMMA PR7	Poly methyl methacrylate	20.00
	ELASTA SP101	VINYL DIMETHICONE/METHICONE SILSESQUIOXANE CROSSPOLYMER	2.00
B	LX BIANCO 200	Titanium Dioxide, Triethoxycaprylylsilane	10.00
	LX IOY ASM LX IOR ASM LX IOB ASM	Iron Oxide, Triethoxycaprylylsilane	p.s
D	Preservative DM 100	Phenoxy ethanol, Ethylhexylglycerin Dimethicone	p.s 3.00

Key Ingredients

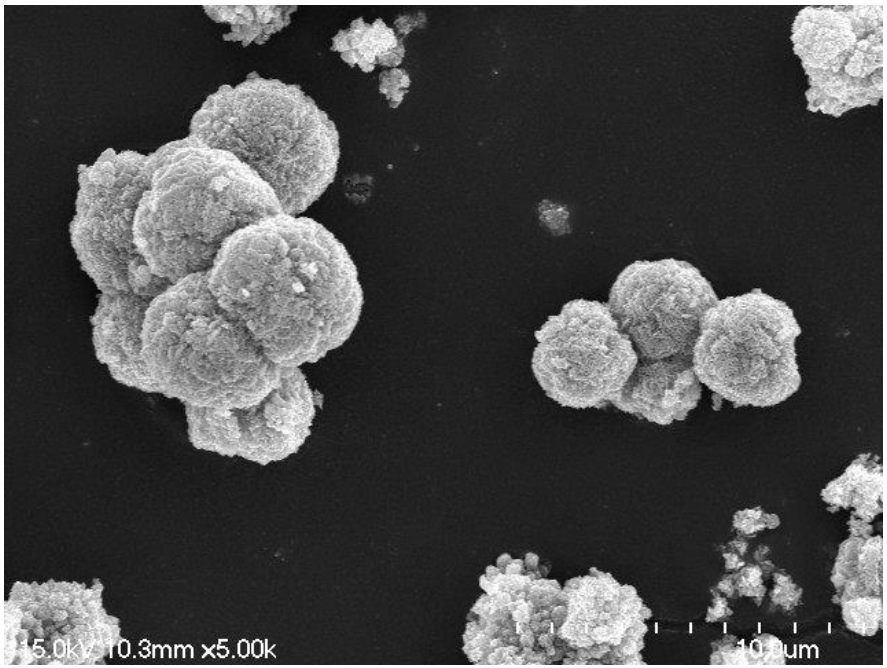
LX TALC 46R ASM
LX PMMA PR7
ELASTA SP101

LX BIANCO 200
LX IOY ASM
LX IOR ASM
LX IOB ASM

Zinc Oxide SS-2000

SS-2000

	SS-2000
Type	Spherical Powder
INCI	Zinc Oxide & Triethoxycarylylsilane
CAS. NO	1314-13-2 & 2943-75-1
Particle Size	1.0 ~ 5.0 um
Oil Absorption	40 ~ 80
Hydrophobicity [LXTM-007]	3.5 Min



01 **Replacement of Plastic beads**
Spherical Zinc Oxide Powder

02 **Excellent Sensory**
Sensory of SS-2000 better than Zinc Oxide standard grade

03 **Selective sebum control**
Fast Absorption

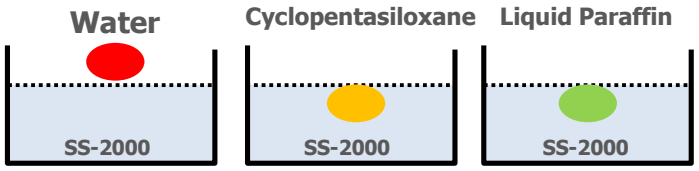
Selective Sebum Control Test

Selective sebum control

LUXON

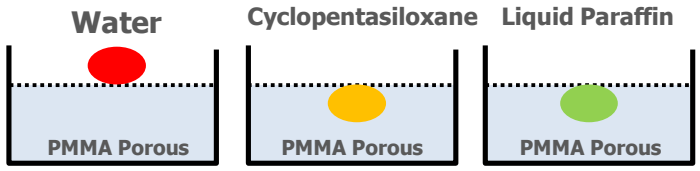
SS-2000

After input 5sec



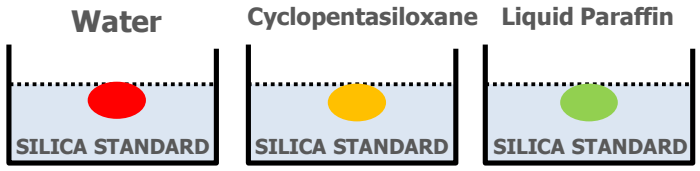
PMMA Porous type

After input 3min



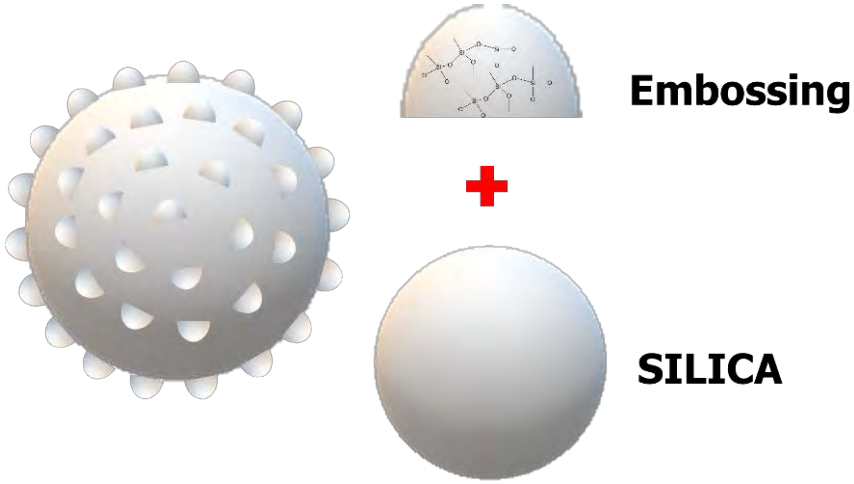
SILICA Standard (Non coating)

After input 3min



EMBO SILICA

EMBO SILICA
(INCI : SILICA & PMSQ)

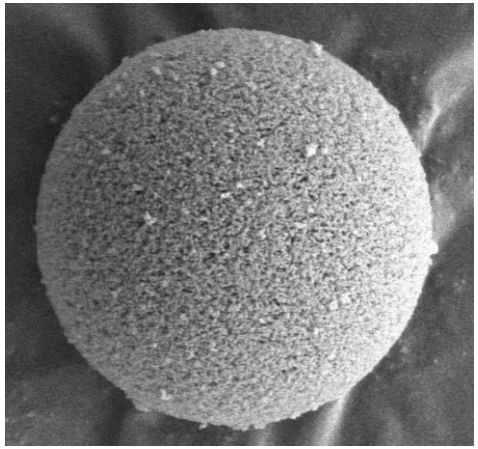


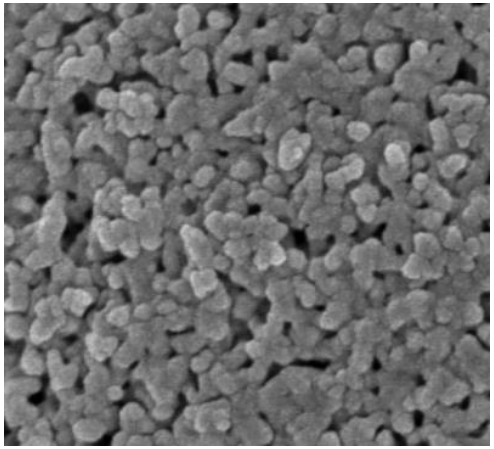
How can silica be soft ?

Usual silica is not soft because it is not elastic.
Our silica was coated with embossing on the silica surface.
Because embossing gives softness,
our silica has a soft feel.
Because it contains a **soft feeling**, the feeling of moisture is higher than that of standard silica.

Although this raw material is silica, it has a texture similar to that of Poly Methylmethacrylate.

Product Name	INCI	Particle Size(μm)	OA
EMBO SILICA	Silica & PMSQ	5 ~ 11	60 ~ 140



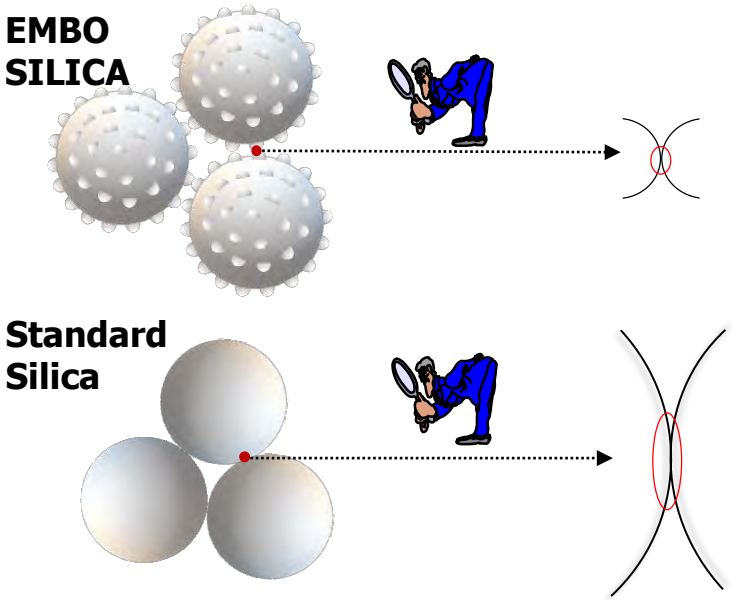


EMBO SILICA

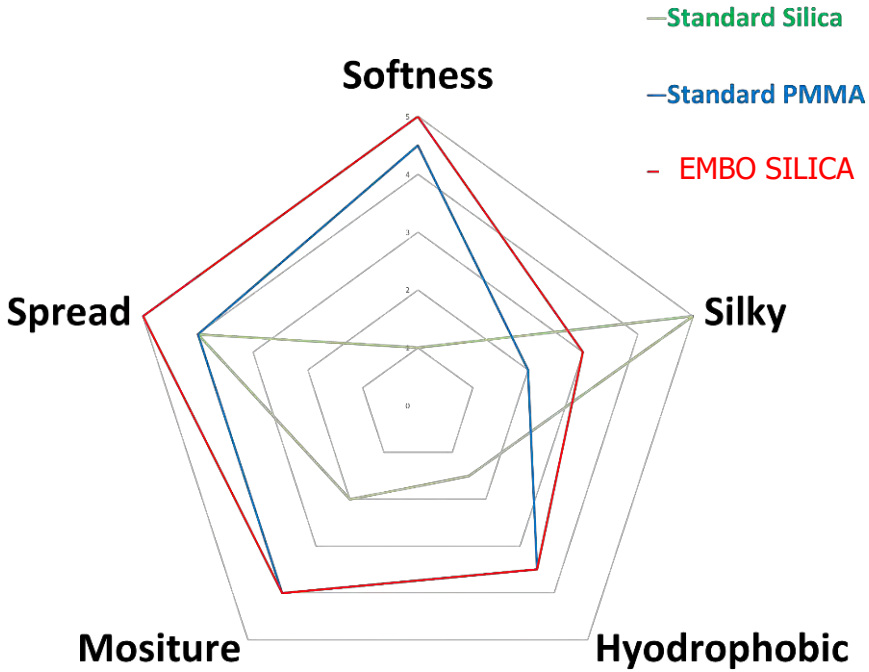
Unlike general spherical powders,

the contact area between particles is very small,

so the spread-ability is the best.



SENSORY TEST



LOOSE POWDER

PHASE	Ingredient	INCI	%
A	EMBO SILICA	Silica, PMSQ	TO100
	ELASTA SP 101	VINYL DIMETHICONE/METHICONE SILSESQUIOXANE CROSSPOLYMER	2.00
B	Preservative	Phenoxy ethanol, Ethylhexylglycerin	p.s

Water Powder LX7

TDS_Water Powder LX7

Composition Information

Ingredient	Contents (%)	CAS No.
SILICA	75 ~ 85 %	7631-86-9
Poly methylsilsequioxane	15 ~ 25 %	68554-70-1

Specification

Items	Specification	Method
Appearance	White Powder	Visual
Odor	Characteristic Odor	Sensory
Particle Diameter(㎛) D50	7.0 ~ 11.0	Particle size analyser
pH	5.0 ~ 9.0	10% in distilled water & ethanol 9:1
Oil Absorption(ml/100g)	60 ~ 140	Liquid Paraffin
Loss on Drying (%)	6.0 Max	2g, 130°C, 30 min.
Lead(pb)	10 ppm max	ICP-Mass
Arsenic(As)	5 ppm max	

Water Powder LX7

INCI Name	Product Name	CAS.NO	Particle Size(μm)	Oil Absorption (ml/100g)
Silica & PMSQ	Water Powder LX7	7631-86-9 68554-70-1	7 ~ 11	100 ~ 180

Characteristic

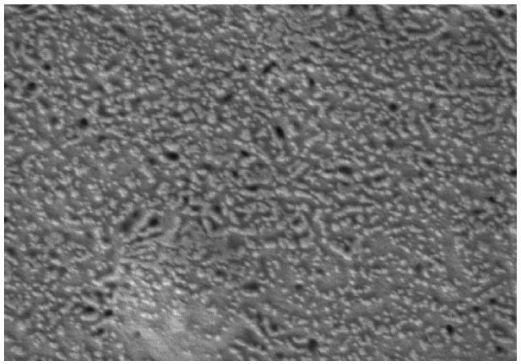
Improving the unique feel of silica

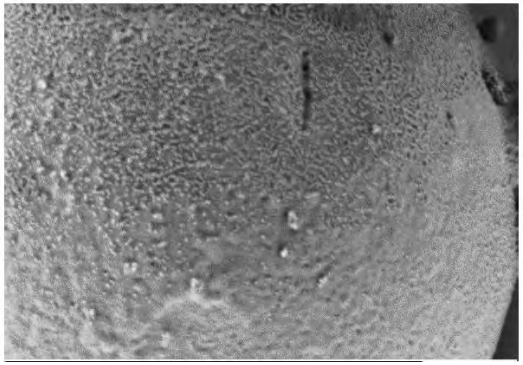
Touch modifying agent

Soft feel effect

Gloss control (silica)

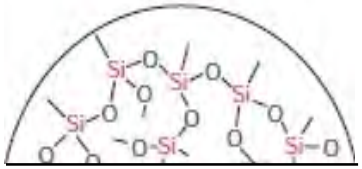
Flow ability Excellent

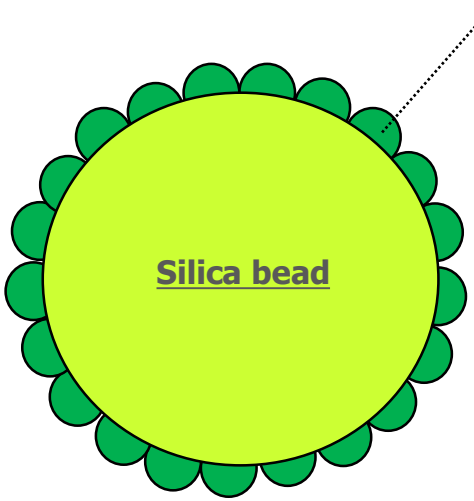




Water Powder LX7

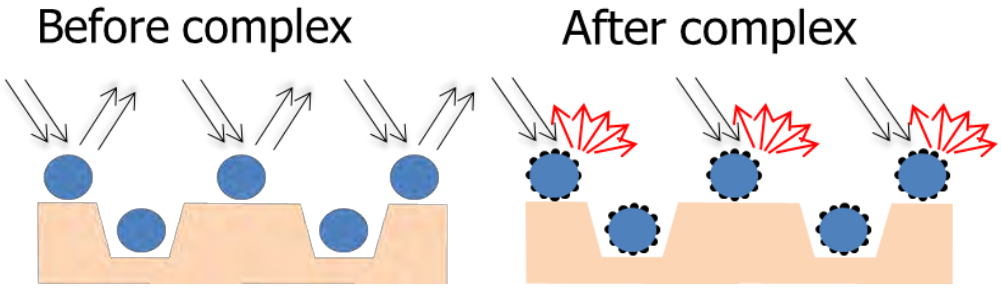
Flow ability Excellent





- A hybrid micro sphere of silica and silicone resin
  Improving the unique feel of silica

Soft Focus Effect
Soft Feeling



- A hybrid micro sphere of silica and silicone resin
  Improving the unique feel of silica

Our Proposal of Glossy Essense (O/W)

Feature

Moist Feeling, Velvety Skin

Lab No.: HTV01219ES-GL(A03)

PHASE	INGREDIENTS	INCI	%
A	D.I.WATER	Water	TO100
	Glycerin	Glycerin	6.00
	Hyalgan LL	Hyaluronic acid	0.01
	MOILUB 1000	Biosaccharide Gum-1	5.00
	MOILUB 701A	PEG/PPG-17/6 Copolymer	5.00
	TWEEN 60	Polysorbate 60	1.50
A-1	Water	Water	10.00
	Keltrol F	Xanthan gum	0.10
B	Water Powder LX7	Silica ,Polymethylsilsequioxane	4.00
	LX MICA (S) ASM	Mica, Triethoxycaprylylsilane	0.50
	DC245	Cyclopentasiloxane	3.50
	Moicos N115	Methyl hydrogenated rosinate	3.50
	CRODAMOL™ GTCC	Caprylic/Capric Triglyceride	1.00
C	SIMULGEL™ EG	Sodium Acrylate / Sodium Acryloyldimethyl Taurate Copolymer / Isohexadecane / Polysorbate 80	1.50
D	Natureclean RP9	Raspberry Ketone/Propanediol	2.50

Standard Operating Procedures

1. Heat phase A to 80℃
2. After stirring A-1, put into A phase
3. After stirring phase B, put into phase A
   Homo mix at 3000RPM for 10 min
4. After input of C phase, homo mix at 3000RPM for 5 min
5. Put D-phase at 45℃
6 Finish after 35 ℃ cooling

Key Ingredients our products

Water Powder LX7

Commend

MOILUB 1000

MOILUB 701A

MOICOS N115

Reference : None

PMMA

Poly Methylmethacrylate Powder

LUXON

LX PMMA PR7

INCI Name	Product Name	CAS.NO	Particle Size(μm)	Oil Absorption (ml/100g)
PMMA				
Poly methyl-metacrylate	LX PMMA PR7	9011-14-7	7	50 ~ 80

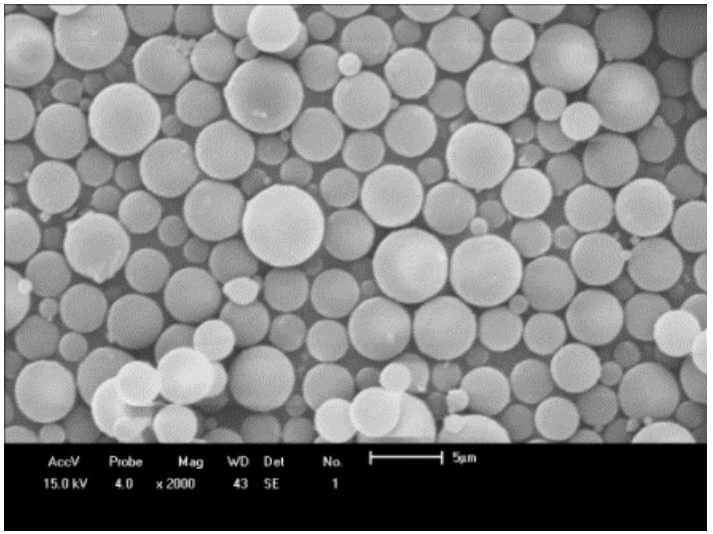
Is a cross linked PMMA Powder

Touch modifying agent

Soft feel effect

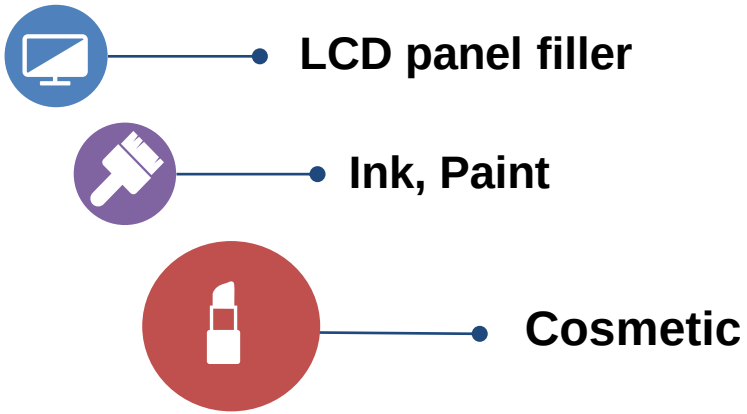
Gloss control

Concealing effect to hide defects



Poly Methylmethacrylate Powder

LX PMMA PR7 is an organic crosslinked microsphere, which developed by Luxon's original suspension polymerization. When it was used to cosmetic, it provides a **rolling effect**, the prevention of aggregation, an elegant silky texture, oil absorption etc.



LX PMMA PR7 Application field

Spread ability test

PMSQ Series

Poly Methylsilsequioxane Powder

LX PMSQ Series

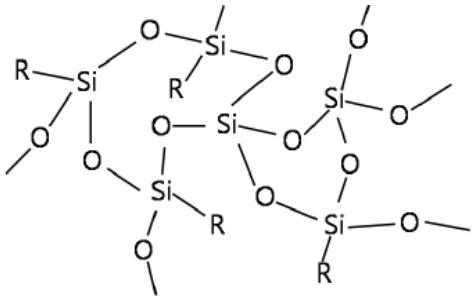
INCI Name	Product Name	CAS.NO	Particle Size(μm)	Oil Absorption (ml/100g)
PMSQ				
Poly methylsilsequioxane	NEW LX PMSQ P50	68554-70-1	3.5 ~ 6.5	30 ~ 70
	NEW LX PMSQ P100		8.0 ~ 13.0	30 ~ 70

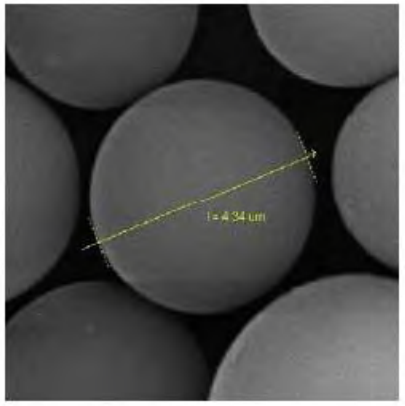
Speherical PMSQ is widely used in

Color cosmetics

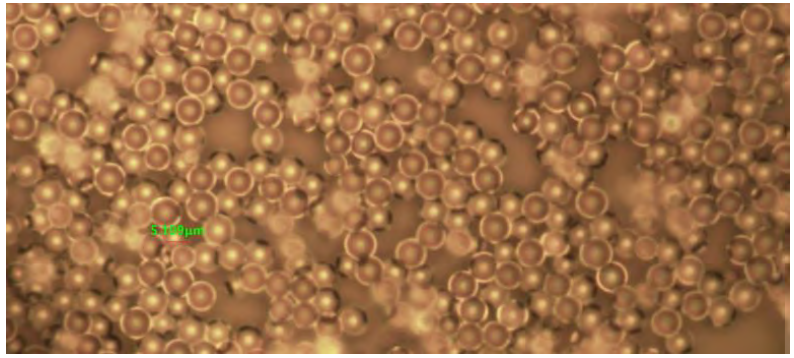
Daily skin care Products

Recreational sunscreen Products

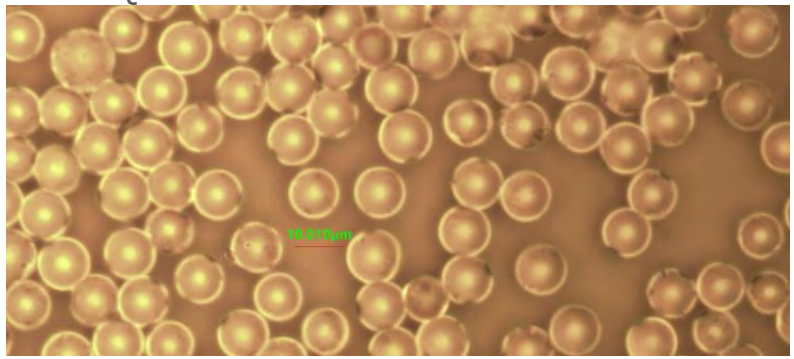




LX PMSQ P50



LX PMSQ P100



Soft Focus effect of LX PMSQ Series

- PMSQ scatters light from as many angles as the **soft focus effect** of the lens.
- PMSQ series naturally expresses skin shades

Poly Methylsilsequioxane Powder

LX PMSQ Series

LOW REFLECTIVE INDEX 1.43

Does not dissolve or swell in all sorts of solvent

Excellent water repellency

More slip an lubricity

Better skin feel

Excellent elasticity

LX PMSQ is a silicone resin sphere with 3-dimensional network structure.

$RSiZ_3 + 3H_2O \rightarrow RSi(OH)_3 + 3HZ$ Hydrolysis

$RSi(OH)_3 \xrightarrow{cat} 3RSiO_{3/2} + 4.5H_2O$ Condensation

$RSi(OH)_3 + RSiZ_3 \xrightarrow{cat} 2RSiO_{3/2} + 3HZ$ Condensation

Z=OR, Cl, cat.=catalyst

Vinyl Dimethicone/Methicone Silsesquioxane Crosspolymer Powder

Vinyl Dimethicone/Methicone Silsesquioxane Crosspolymer Powder

LUXON

ELASTA SP 101

INCI Name	Product Name	CAS.NO	Particle Size(μm)	Oil Absorption (ml/100g)
Vinyl Dimethicone/Methicone Silsesquioxane Crosspolymer	ELASTA SP101	243137-53-3	8.0 ~ 13.0	40 ~ 60

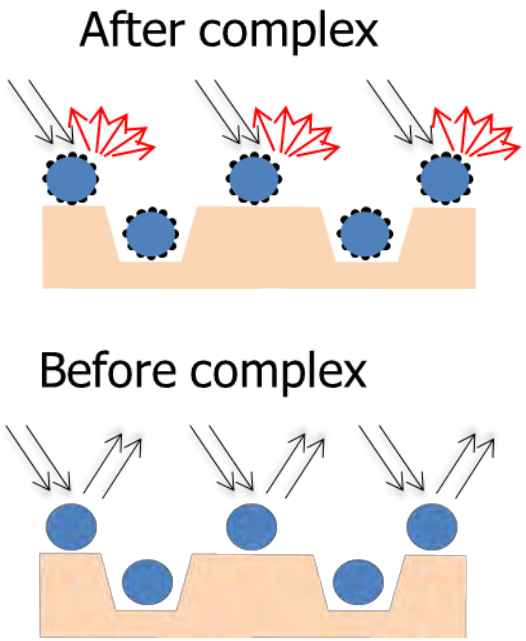
Spherical Vinyl Dimethicone/Methicone Silsesquioxane Crosspolymer is widely used in

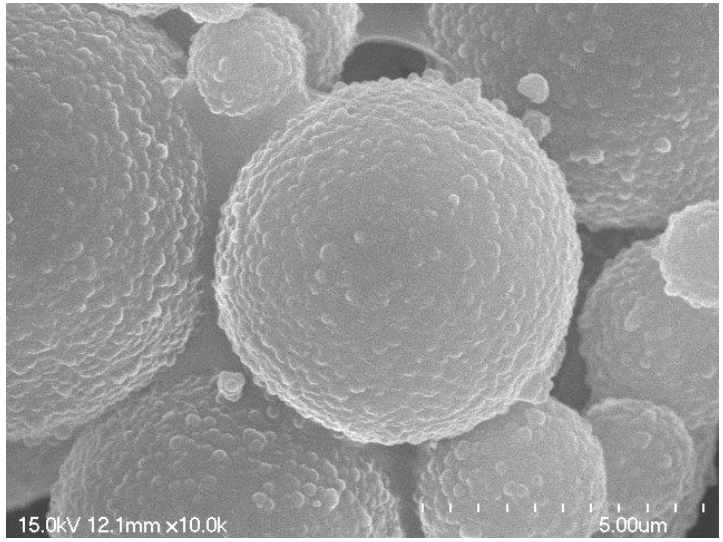
Color cosmetics

Daily skin care Products

Recreational sunscreen Products

Soft Focus Effect
Soft Feeling



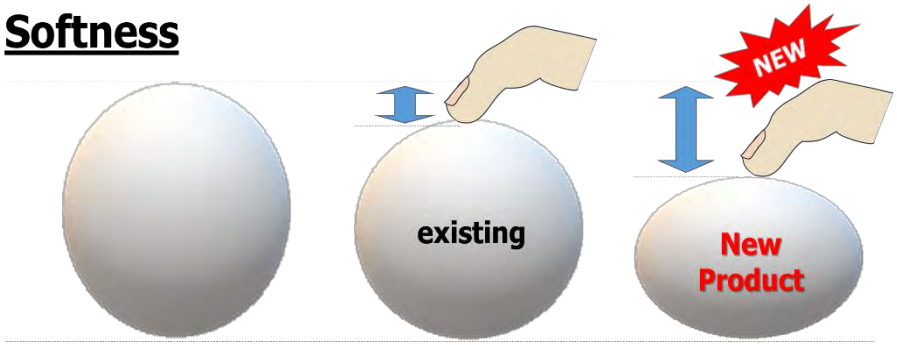


LUXON

ELASTA HSP101

(INCI : Vinyl Dimethicone /
Methicone Silsesquioxane Crosspolymer)

Softness



How did you develop softer than existing products?

By strengthening the method of the coating,

the softness was increased compared to the

existing product.

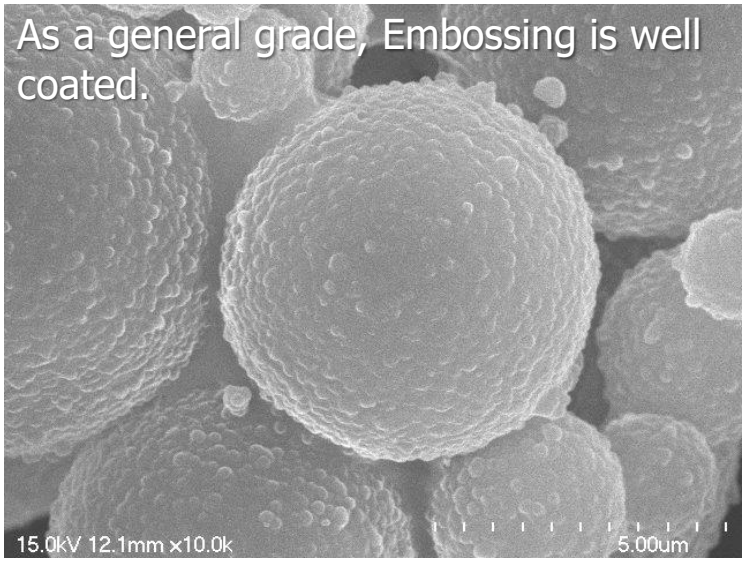
Also, **ELASTA HSP 101** is coated with shell,

which Scatters light at many different angles.

A lot of scattering of light gives a soft focus effect.

LX ELASTA HSP 101

LX ELASTA SP101



ELASTA HSP101

ELASTA Series

Product Name	CAS.NO	Particle Size(μm)
LX ELASTA SP101	243137-53-3	8.0 ~ 15.0
LX ELASTA HSP 101		

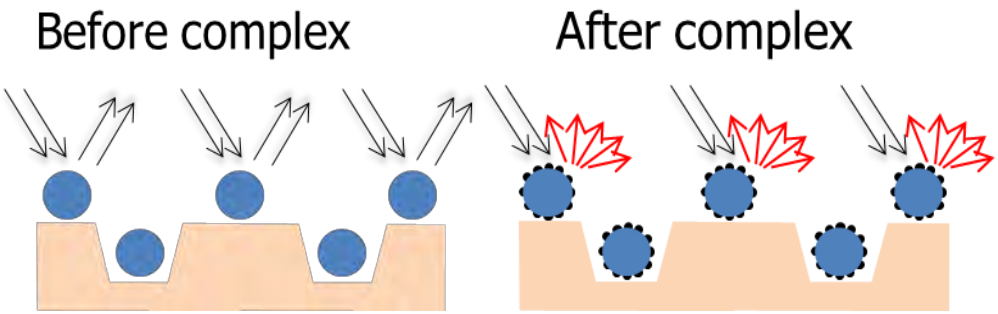
Features

- Offer Elastic Texture
- Soft Focus and blurring effect due to lower refractive index
- Excellent silky and smooth texture
- Hydrophobic surface
- Thickening effect

Applications

- MAKE-UP Formulations
- Skin-Care Formulations
- Other Potential Formulations.

Soft Focus Effect



ELASTA HSP101 is a hybrid micro sphere of silicone elastic polymer and silicone resin.
It offers elastic texture with the increased brightness, when being applied to skin.
It makes wrinkles invisible by filling in the lines of wrinkles.
Refractive index of ELASTA HSP101 is lower than ordinary inorganic powders, **leading to soft focus and blurring effect on skin.**
In addition, ELASTA HSP101 has a higher oil adsorption than other silicone powders or PMSQ powders, which can induce **thickening effect.**

Formulation_Sun Stick

PHASE	Ingredient	INCI	%
A	MIPEARL BGC	Butylene glycol dicaprylate/dicaprate	TO100
	Polyethylene	Polyethylene	15.00
	DM 100	Dimethicone	12.00
	CEH	**Ethylhexyl Methoxycinnamate**	4.00
	CERESIN	CERESIN	2.00
	Paracera N 88	Synthetic Wax	0.50
	PARSOL 340	OCTOCRYLENE	10.00
	PARSOL MCX	**Ethylhexyl Methoxycinnamate**	7.50
	LX DTN 60AB	**Please refer to LUXON MSDS**	4.00
	Uvinul® A Plus	Diethylamino Hydroxybenzoyl Hexyl Benzoate	3.00
	Tinosorb® S	Bis-Ethylhexyloxyphenol Methoxyphenyl Triazine	2.00
B	SPHESTA MD 7	Silica	2.00
	SP101	Vinyl Dimethicone/Methicone Silsesquioxane Crosspolymer	7.50
	LX PMMA PR7	Polymethyl Methacrylate	7.50
C	Viet A	Retinyl Palmitate	p.S
	Alpha-Melight (ECO) KFDA Grade	Bisabolol	p.s
	Preservative	Phenoxy ethanol, Ethylhexylglycerin	p.s

Key Ingredients

LX DTN 60AB
ELASTA SP101
SPHESTA MD7
LX PMMA PR7

Ingredient

Polyethylene, Diemthicone, Octocrylene, Vinyl Dimethicone/Methicone Silsesquioxane Crosspolymer, Polymethyl Methacrylate, Ethylhexyl Methoxycinnamate, Ethylhexyl Methoxycinnamate, Diethylamino Hydroxybenzoyl Hexyl Benzoate, Ceresin, Bis-Ethylhexyloxyphenol Methoxyphenyl Triazine, Silica, Retinyl Palmitate, Bisabolol, Phenoxy ethanol, Ethylhexylglycerin

Reference : AHC Natural Perfection Double Shield Sun Stick

Formulation_Invisible Setting Powder

PHASE	Ingredient	INCI	%
A	LX TALC 46R ASM	Talc, Triethoxycaprylylsilane	TO100
	LX SERICITE DSM	Sericite, Dimethicone	20.00
	SILIA LX10	Silica	15.00
	ELASTA SP101	VINYL DIMETHICONE/METHICONE SILSESQUIOXANE CROSSPOLYMER	10.0
B	LX IOY ASM LX IOR ASM LX IOB ASM	Iron Oxide, Triethoxycaprylylsilane	p.s
D	Preservative	Phenoxy ethanol, Ethylhexylglycerin	p.S

Key Ingredients

LX TALC 46R ASM
LX Sericite DSM
SILIA LX10
ELASTA SP101

LX IOY ASM
LX IOR ASM
LX IOB ASM

Ingredient

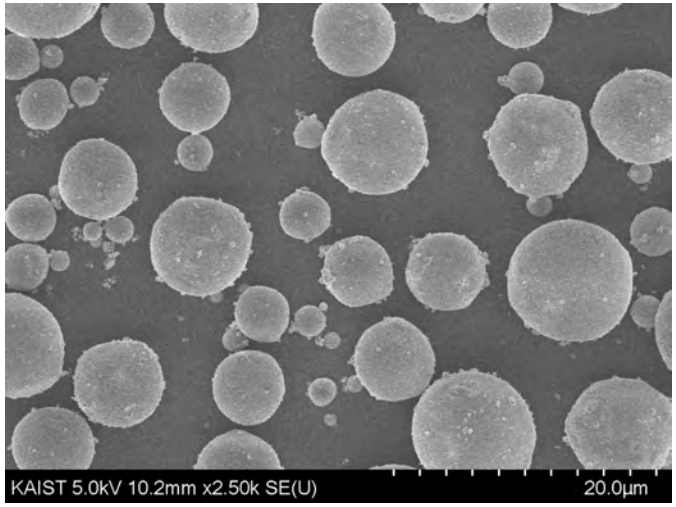
Talc, Sericite, Silica,
Vinyl Dimethicone/Methicone silsesquioxane crosspolyemr,
Dimethicone, Triethoxycaprylylsilane,
Yellow Iron oxide, Red Iron oxide, Black Iron Oxide
Phenoxy ethanol, Ethylhexylglycerin

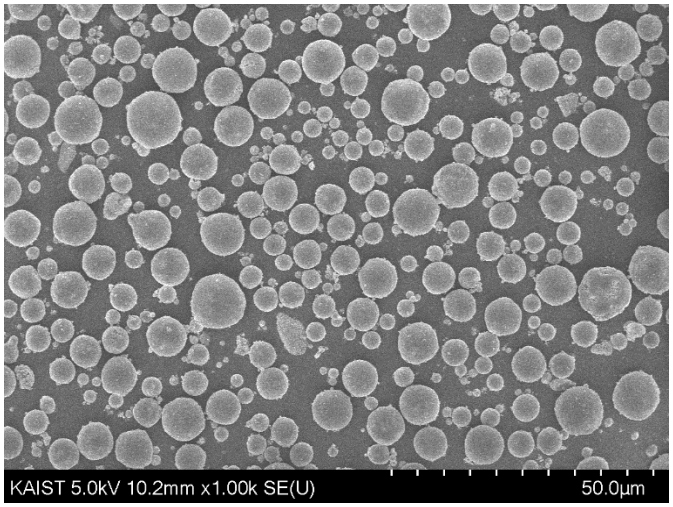
Reference : MAKE UP FOR EVER/ UHD SETTING POWDER

TIS-35, TIS-35 AS
(TIS : Titanium dioxide In Silica)

LX TIS-35, 35AS

Grade	Descriptions	Our proposal	Avg. Particle size(um)	Oil Absorption (ml/100g)
LX TIS-35	Titanium Dioxide 35%(250nm) in Silica	Natural Tone-Up Cream, SUN Cream, Whitening Agent, Etc,.	5~10um	90~130
LX TIS-35AS	Titanium Dioxide 35%(250nm) in Silica & Triethoxycaprylylsilane		5~10um	80~120





Feature of LX-TIS Series

LX TIS 35, 35AS

Natural coverage

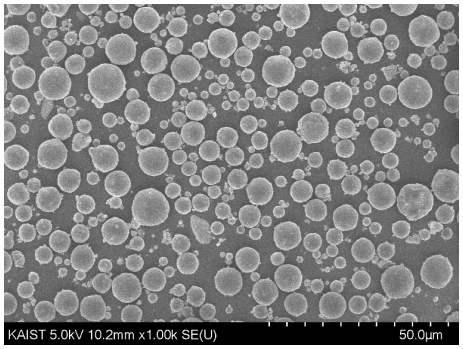
Luxurious feel

Soft feeling

Particle Size: 7um

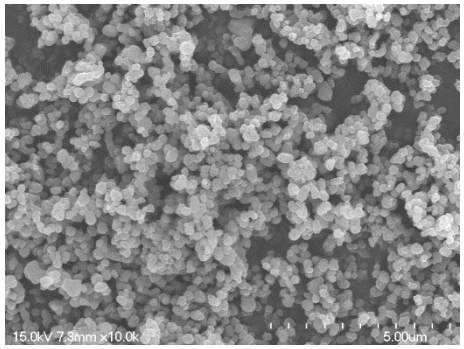
(TiO2 35% + Silica 65%)

(TiO2 35% + Silica 65%) + AS 3%



TIS-35 : **Soft** Sensory

≠



TiO2 : **Rough** Sensory

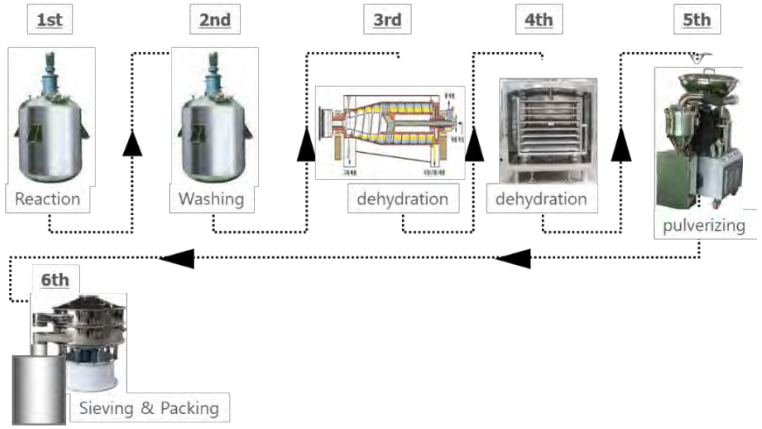
It's different

Using the TIS-35 developed by our company instead of TiO2

Soft sensory, adhesion, and increased coverage.

Manufacturing Flow Chart

Silica Flow chart

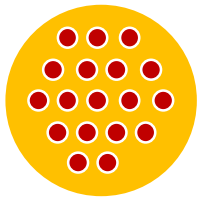


Before 1step

Raw material of silica

Titanium Dioxide

Homogenizer

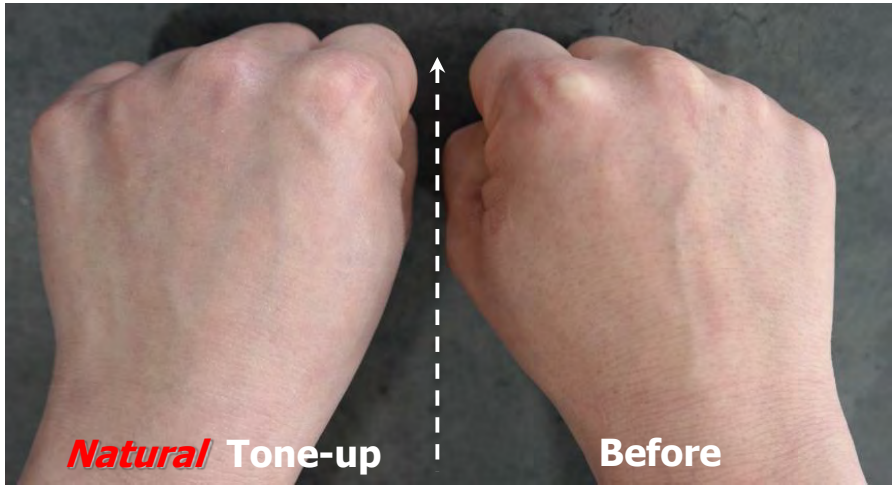


Reaction Start

Formulation Tone Up Cream

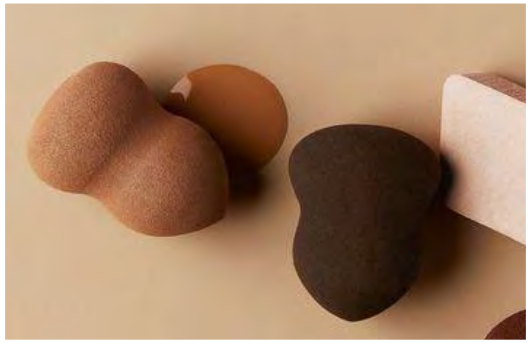
O/W Formulation_1901_TONE UP Cream_TC-TWSP6-104-PEH

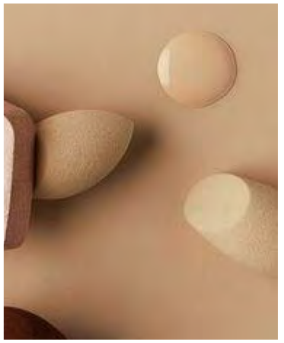
Phase	Trade Name	INCI	%
A	RHERODOL TW S 120V (TWEEN 60)	Polyoxyethylene (20) Sorbitan Monostearate	0.5
	Hicos GTC	GTCC	2.0
	Dimethicone	Dimethicone	2.0
	LX TIS-35, 35AS	Silica & Titanium Dioxide	3.0
	Serasence SF CM 56	Cyclopentasiloxane, Cyclohexasiloxane	3.0
B	D.I-WATER	D.I-WATER	53.48
	EDTA-2NA	EDTA-2NA	0.02
	NIACINAMIDE	NIACINAMIDE	2.0
	Propylene glycol	Propylene glycol	15.0
	BH-8000	1.2 Hexanediol	2.0
	GLYCERIN	GLYCERIN	15.0
C	RHEOSOL AVH	Sodium Polyacrylate (and) Ethylhexyl Stearate (and) Trideceth-6	2.0
			100.0



Surface Treatments Technology

Version 3.2





For more information

Website : www.luxonkorea.co.kr
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Office telephone: +82-31-943-7751
Cellular Phone: +82-10-9869-7751

Product List

Color Pigment Series

	Trade Name	INCI NAME	Character
Iron oxide	B-BL ASM	Iron Oxide Black & Triethoxycaprylylisilane	Retention on 200mesh sieve 2.0% MAX
	R-RL ASM	Iron Oxide Red & Triethoxycaprylylisilane	Retention on 200mesh sieve 2.0% MAX
	Y-LL ASM	Iron Oxide Yellow & Triethoxycaprylylisilane	Retention on 200mesh sieve 2.0% MAX
	PHILICSTA BLACK	Iron Oxide Black & Phytic Acid	Retention on 200mesh sieve 2.0% MAX
	PHILICSTA RED	Iron Oxide Red & Phytic Acid	Retention on 200mesh sieve 2.0% MAX
	PHILICSTA YELLOW	Iron Oxide Yellow & Phytic Acid	Retention on 200mesh sieve 2.0% MAX

TiO2 Series

	Trade Name	INCI NAME	Character
TiO2	LX Bianco 200	Titanium Dioxide & Triethoxycaprylylisilane	D50 : 200nm ~ 300nm
	LX Bianco 200N	Titanium Dioxide & Stearic Acid	D50 : 200nm ~ 300nm
	LX Bianco 200HD	Titanium Dioxide & Hydrogen Dimethicone	D50 : 200nm ~ 300nm
	LX Bianco 200MSM	Titanium Dioxide & Methicone	D50 : 200nm ~ 300nm
	PHILICSTA WHITE	Titanium Dioxide & Phytic Acid	D50 : 200nm ~ 300nm ll OA : 20 ~ 50

ZnO Series

	Trade Name	INCI NAME	Character
ZnO	LX SS-500	Zinc oxide & Silica & Triethoxycaprylylsilane	D50 : 300nm ~ 700nm
	LX SS-500N	Zinc oxide & Silica & Stearic acid (* Lauroyl lysine)	D50 : 300nm ~ 700nm || Natural coating

Product List

Talc Series

	Trade Name	INCI NAME	Character
Talc	LX Talc 13R ASM	Talc & Triethoxycaprylylisilane	D50 : 5.0 ~ 10.0 um
	LX Talc 46R ASM	Talc & Triethoxycaprylylisilane	D50 : 10.0 ~ 15.0 um
	LX Talc 46R DSM	Talc & Dimethicone	D50 : 10.0 ~ 15.0 um
	LX Talc AM	Talc & Lauroyl Lysine	D50 : 7.0 ~ 15.0 um
	LX Talc STMC	Talc & Theobroma cacao Seed Butter	D50 : 7.0 ~ 15.0 um
	LX Talc LSA	Talc & Diemthiconol Sterate	D50 : 7.0 ~ 15.0 um

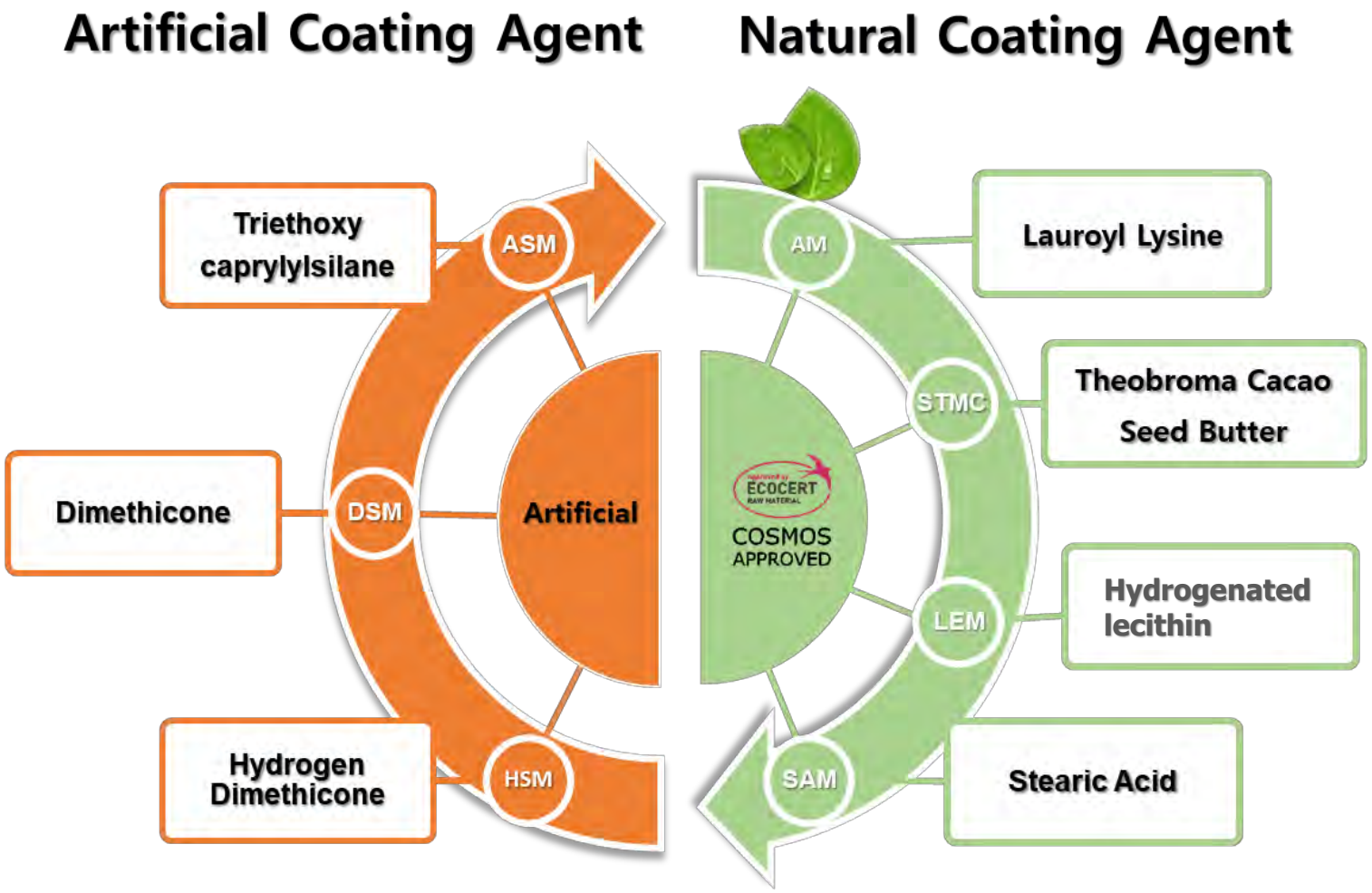
MICA Series

	Trade Name	INCI NAME	Character
MICA	LX MICA ASM	MICA & Triethoxycaprylyisilane	D50 : 12.0um ~ 17.0um
	LX MICA DSM	MICA & Dimethicone	D50 : 12.0um ~ 17.0um
	LX MICA AM	MICA & Lauroly Lysine	D50 : 12.0um ~ 17.0um
	LX MICA LEM	MICA & Hydrogenated Lecithin	D50 : 12.0um ~ 17.0um
	LX MICA STMC	MICA & Theobroma Cacao Seed Butter	D50 : 12.0um ~ 17.0um
	LX MICA LSA	MICA & Dimethiconol Sterate	D50 : 12.0um ~ 17.0um

Sericite Series

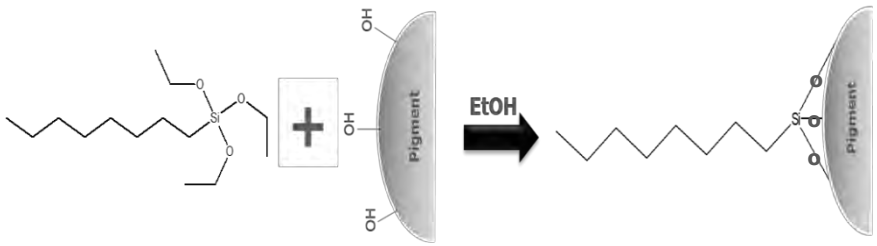
	Trade Name	INCI NAME	Character
Sericite	LX Sericite ASM	Sericite & Triethoxycaprylylsilane	D50 : 12.0um ~ 17.0um
	LX Sericite DSM	Sericite & Dimethicone	D50 : 12.0um ~ 17.0um
	LX Sericite AM	Sericite & Lauroly Lysine	D50 : 12.0um ~ 17.0um
	LX Sericite LEM	Sericite & Hydrogenated lecithin	D50 : 12.0um ~ 17.0um
	LX Sericite STMC	Sericite & Theobroma Cacao & Seed Butter	D50 : 12.0um ~ 17.0um
	LX Sericite LSA	Sericite & Dimethiconol Sterate	D50 : 12.0um ~ 17.0um

Coating Agent Control



Artificial Coating Agent

Triethoxy Caprylylsilane



Characteristic of Agent

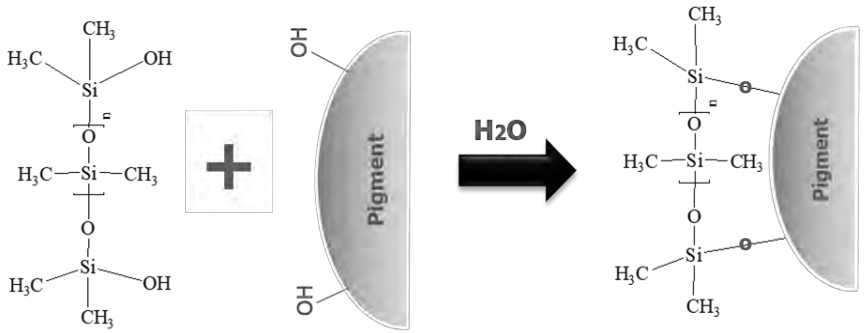
Long-lasting effect

Improvement dispersibility

Light feeling

Improvemented hydrophobicity

Dimethicone



Characteristic of Agent

Long-lasting effect

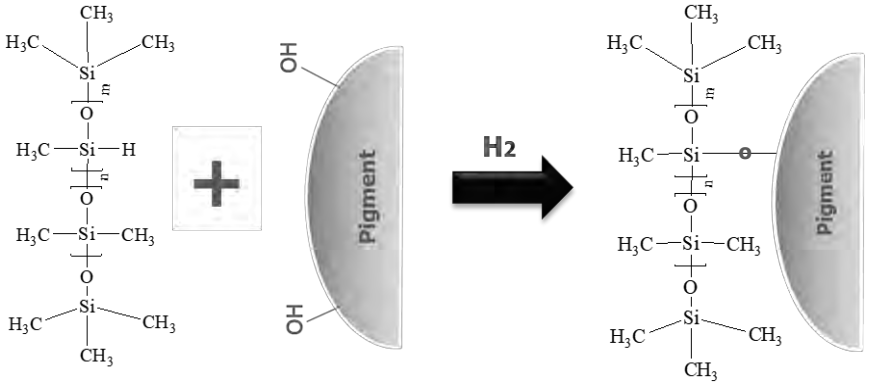
Improvement dispersibility

Soft feeling

Slightly wet feeling

Artificial Coating Agent

Hydrogen Dimethicone



Characteristic of Agent

Reduction of H2 Gas generation

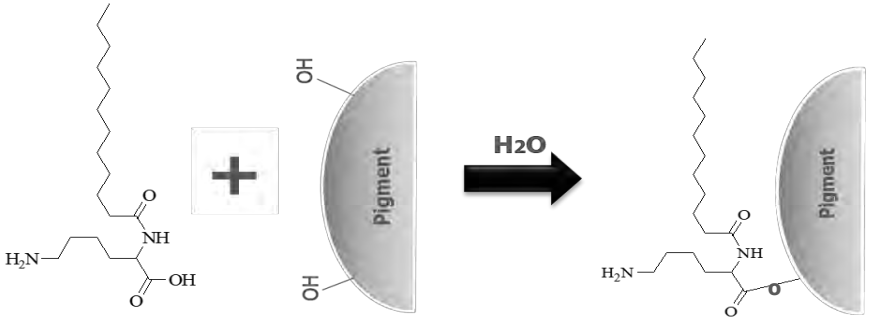
Advanced methicone

Soft feeling

Slightly wet feeling

Natural Coating Agent

Lauroyl Lysine



Characteristic of Agent

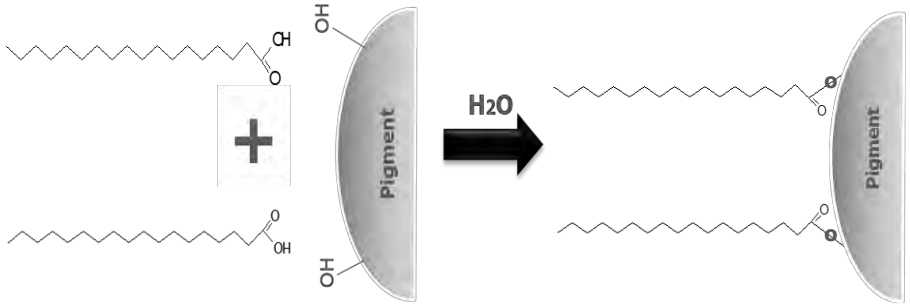
Natural coating source

Skin affinity

Soft feeling

Moisturizing feeling

Stearic Acid



Characteristic of Agent

Natural coating source

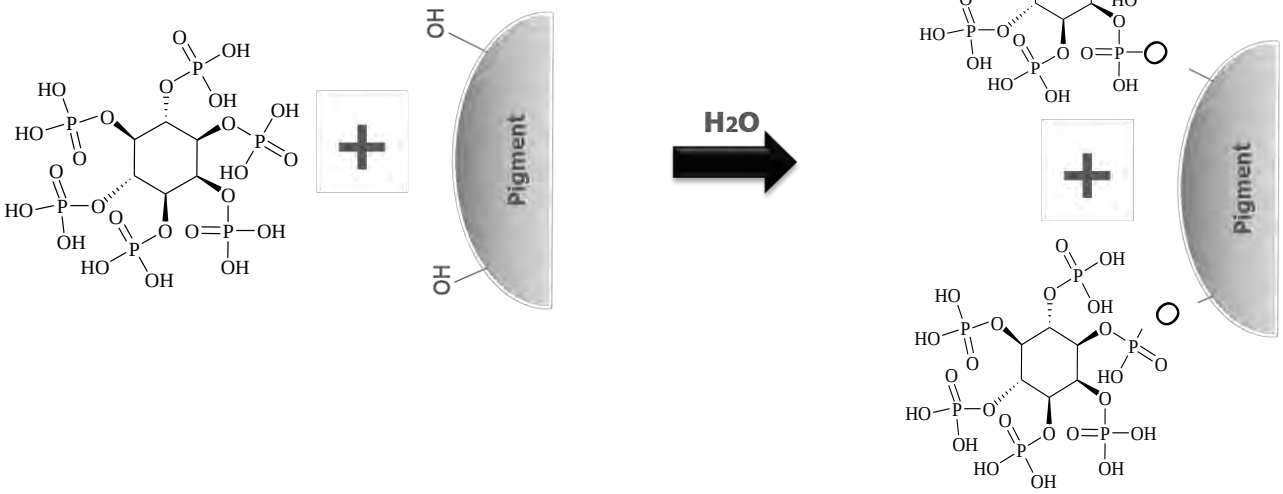
Skin affinity

Soft feeling

Moisturizing feeling

Hydrophilic Coating Agent

Phytic Acid



Characteristic of Agent

Good Re-dispersibility

Recommend for skin toner

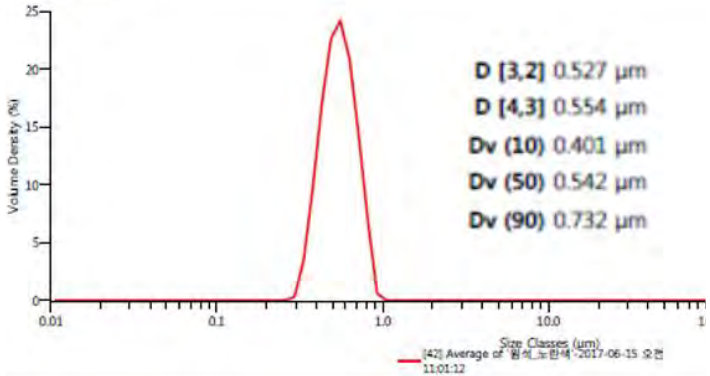
Color cosmetic / Eyeshadow

Enhanced stability in O/W

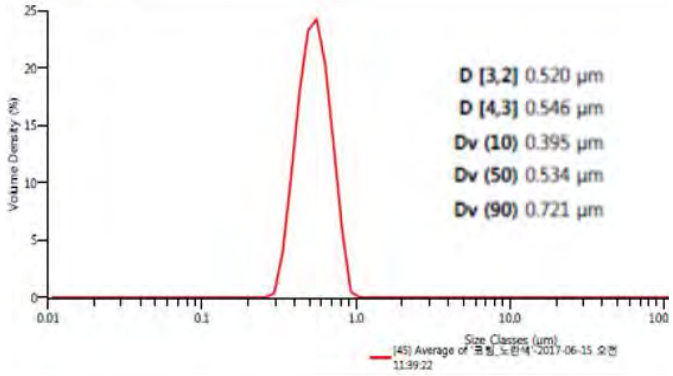
Surface Treatment Methods

Substantial surface treatment & grinding technology

Before coating (Dv50:**0.542**㎛)



After coating (Dv50:**0.534**㎛)



Coating Method

	Coating Method	Mechanical	Solvent	Chemical repulsion
LUXON	Our Wetting coating	O	O	O
Other companies	Dry coating	O	X	X
	Wetting coating	O	O	X

Products with technology

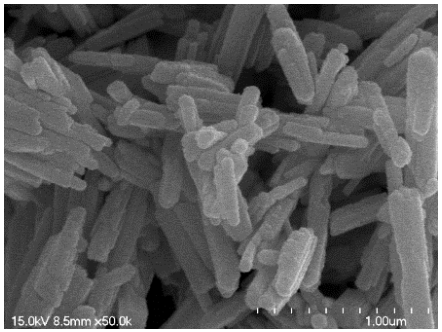
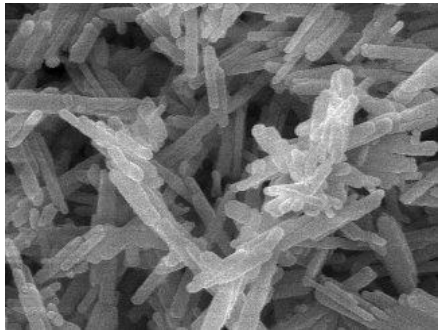
Iron Oxide Yellow

Iron Oxide Red

Iron Oxide Black

Titanium Dioxide / LX Bianco 200, 200N

Color Pigment Series

INCI Name	Iron Oxide Yellow Triethoxycaprylylsilane	Iron Oxide Red Triethoxycaprylylsilane	Iron Oxide Black Triethoxycaprylylsilane
SEM			
Product Name	Y-LL ASM / Y-LLP ASM	R-RL ASM / R-RLP ASM	B-BL ASM / B-BLP ASM
Particle Size	2um Max	2um Max	2um Max
Hydrophobicity Test	4 Min	4 Min	4 Min
Oil Compatibility Test	Excellent	Excellent	Excellent
Dispersibility	Excellent	Excellent	Excellent

Hydrophobicity TEST

Hydrophobicity of competitor

Left : competitor right : LUXON

Test Method

1. Vial Input D.I water 35g
2. #1 Input Pigment 1~1.5g
3. Sonic BRANSON 5800 ; 5min
4. Hydrophobicity check

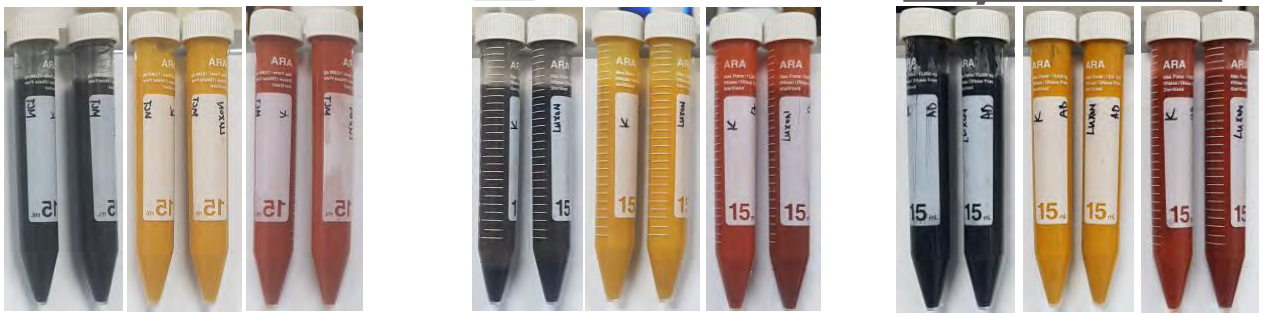
BRANSON 5800

Oil compatibility TEST

LUXON

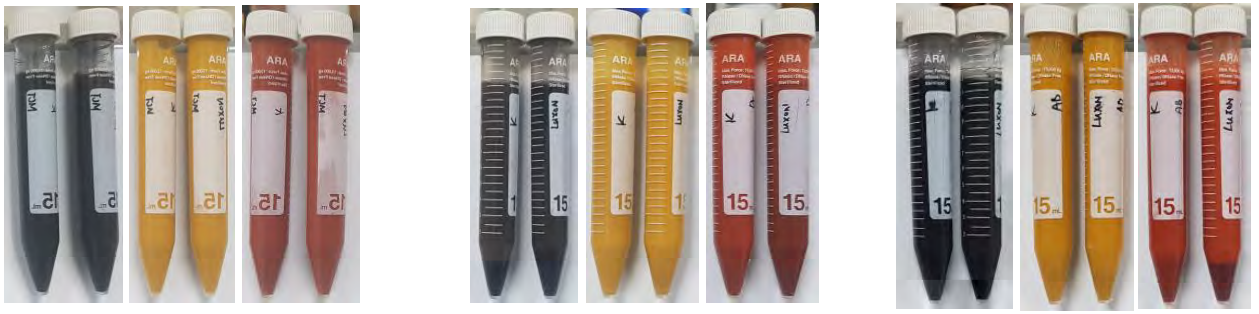
MCT **D5** **Alkyl Benzoate**

Before Test



Left : competitor right : LUXON

After Test



Test Method

1. Vial Input Oil 25g
2. #1 Input Pigment 2.5g
3. Hand shaking ; 10 times
4. Sonic BRANSON 5800 ; 5min
5. #4 Centrifugal separator(FLETA 4) 2000rpm ; 5min

Applicator TEST

Comparison of Dispersibility

Test Method

1. Mix raw materials;
   Pigment : TiO2 ASM : Silicone Oil(D5+D6) = 1:9:10
2. Disperse with a homogenizer; 3000rpm; 5min
3. Applicator test on Hiding Power Chart ; Coating thickness 30 μm

TiO2 Series

INCI Name	Product Name	Particle Size(μm)	Properties
Titanium Dioxide Triethoxycaprylylsilane	LX Bianco 200	0.20~0.30	Milk skin sensation Excellent affinity to skin
Titanium Dioxide Stearic Acid	LX Bianco 200N	0.20~0.30	Milk skin sensation Excellent affinity to skin
Titanium Dioxide Hydrogen Dimethicone	LX Bianco 200 HD	0.20~0.30	Milk skin sensation Excellent affinity to skin
NEW Titanium Dioxide Poly Methylsilsequioxane	Water Powder Bianco 200	0.20~0.30	Milk skin sensation Excellent affinity to skin
Titanium Dioxide Methicone	LX Bianco 200 MSM	0.20~0.30	Milk skin sensation Excellent affinity to skin

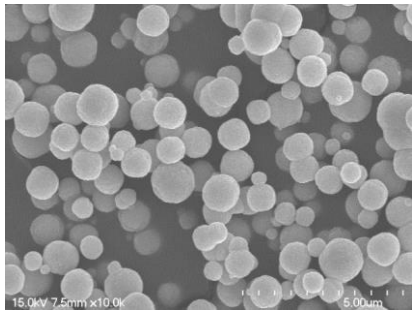
Application : W/O emulsion Oil dispersion Powders

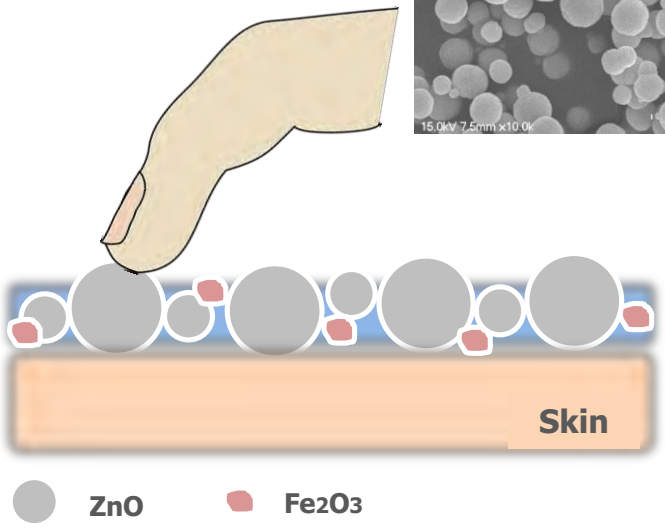
ZnO Pigment Series

INCI Name	Product Name	Particle Size(μm)	Properties
LX SS-500	Zinc oxide & Silica & Triethoxycaprylylsilane	D50 : 300nm ~ 700nm	Milk skin sensation Excellent affinity to skin
LX SS-500N (SS500NLL)	Zinc oxide & Silica & Stearic acid(* Lauroyl lysine)	D50 : 300nm ~ 700nm || Natural coating	Milk skin sensation Excellent affinity to skin

Application : W/O emulsion Oil dispersion Powders

Our Product Type

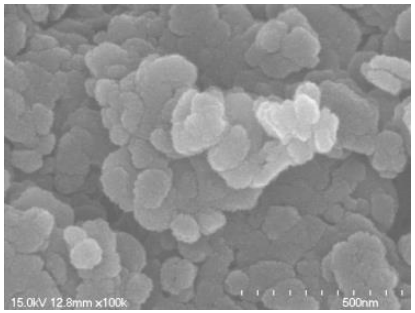


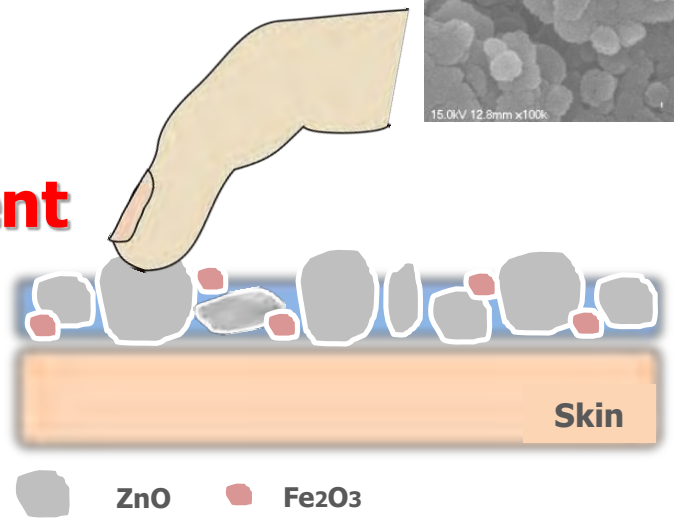


It's different

≠

Others Product Type





Talc Series

INCI Name	Product Name	Particle Size(μm)	Properties
Talc Triethoxycaprylylsilane	LX Talc 13R ASM	9	Milk skin sensation Excellent affinity to skin Powdery skin feel
	LX Talc 46R ASM	13	
Talc Dimethicone	LX Talc 46R DSM	13	Powdery skin feel and milk skin sensation Excellent skin adhesion
Talc Lauroyl Lysine	LX Talc AM	13	Milk skin sensation Excellent skin adhesion Light and moist texture
Talc Theobroma cacao Seed Butter	LX Talc STMC	13	Excellent cream like feeling & spreadability Excellent moisturizing effect Excellent compressibility
Sericite Dimethiconol Sterate	LX Talc LSA	13	

Application : W/O emulsion Oil dispersion Powders

MICA Series

INCI Name	Product Name	Particle Size(μm)	Properties
MICA Triethoxycaprylylsilane	LX MICA ASM	9~11	Milk skin sensation Excellent affinity to skin
MICA Dimethicone	LX MICA DSM	9~11	Powdery skin feel
MICA Lauroly Lysine	LX MICA AM	9~11	Smooth skin sensation Excellent spread ability
MICA Hydrogenated Lecithin	LX MICA LEM	9~11	
MICA Theobroma Cacao Seed Butter	LX MICA STMC	9~11	Excellent cream like feeling & spread ability Excellent moisturizing effect Excellent emollient feel & compressibility
MICA Dimethiconol Sterate	LX MICA LSA	9~11	

Application : W/O emulsion Oil dispersion Powders

Sericite Series

INCI Name	Product Name	Particle Size(μm)	Properties
Sericite Triethoxycaprylylsilane	LX Sericite ASM	9~11	Milk skin sensation Excellent affinity to skin
Sericite Dimethicone	LX Sericite DSM	9~11	Powdery skin feel
Sericite Lauroly Lysine	LX Sericite AM	9~11	Smooth skin sensation Excellent spread ability
Sericite Hydrogenated Lecithin	LX Sericite LEM	9~11	
Sericite Theobroma Cacao Seed Butter	LX Sericite STMC	9~11	Excellent cream like feeling & spread ability Excellent moisturizing effect Excellent emollient feel & compressibility
Sericite Dimethiconol Sterate	LX Sericite LSA	9~11	

Application : W/O emulsion Oil dispersion Powders

Formulation_Loose Powder

Phase	Trade Name	INCI	%
A	LX TALC 46R ASM	Talc, Triethoxycaprylylsilane	54.30
	LX Sericite ASM	Mica, Triethoxycaprylylsilane	20.00
	SILIA LX7	Silica	10.00
	Dry Flo PC	Aluminum Starch Octenylsuccinate	2.00
	Kaolin 2457	Kaolin	5.00
	ELASTA SP101	Vinyl Dimethicone/Methicone Silsesquioxane Crosspolymer	5.00
	Y-LL ASM	Iron Oxide Yellow, Triethoxycaprylylsilane	0.55
	R-RL ASM	Iron Oxide Red, Triethoxycaprylylsilane	0.20
	B-BL ASM	Iron Oxide Black, Triethoxycaprylylsilane	0.15
B	Hicos CEH	Cetyl Ethylhexanoate	1.05
	Phyto Squalane	Phyto Squalane	1.60
	spectrastat	Caprylhydroxamic Acid/Caprylyl Glycol/Glycerin	0.15
			100.0

Key Ingredients

LX TALC ASM
SILIA LX7
LX SERICITE ASM
ELASTA SP101
Y-LL ASM
R-RL ASM
B-BL ASM

Ingredient

Talc, Zinc Stearate, Magnesium Carbonate, **Silica,** Cetyl Ethylhexanoate, Hydroxyapatite, Tocopheryl Acetate, Methyl Paraben, Fragrance, **Mica**, Titanium Dioxide, Zinc Oxide, Ultramarine,
Yellow Iron oxide, Red Iron oxide, Black Iron Oxide

Formulation_Powder Pact

Phase	Trade Name	INCI	%
A	LX Talc STMC	Talc, Theobroma Cacao(Cocoa) Seed Butter, Dimethicone	31.64
	LX Sericite STMC	Mica, Theobroma Cacao(Cocoa) Seed Butter, Dimethicone	20.00
	LX Bianco 200	Titamium dioxide, Triethoxycaprylylsilane	16.00
	LX MICA DSM	Mica, Dimethicone	15.00
	ELASTA SP101	Vinyl Dimethicone/Methicone Silsesquioxane Crosspolymer	3.00
	SILIA LX7	Silica	2.00
	Y-LL ASM	Iron Oxide Yellow, Triethoxycaprylylsilane	3.00
	R-RL ASM	Iron Oxide Red, Triethoxycaprylylsilane	0.64
	B-BL ASM	Iron Oxide Black, Triethoxycaprylylsilane	0.32
B	Hicos MCT	Caprylic/Capric Triglyceride	2.90
	SF1000N 100cs	Dimethicone	2.60
	SF 5600Z	Phenyl Trimethicone	2.00
	Parsol MCX	Ethylhexyl Methoxycinnamate	0.40
	spectrastat	Caprylhydroxamic Acid/Caprylyl Glycol/Glycerin	0.30
	Vitamin E acetate	Tocopherol Acetate	0.10
	Perfume	Tocopherol Acetate	0.10
			100.0

Ingredient

Talc, Mica,Sericite, Titanium Dioxide, Diethylhexyl Succinate, **Silica**, Nylon-12, Zinc Stearate, Polyethylene, **Yellow Oxide of Iron**, Hydrogenated Lecithin, Trimyristin, **Red Oxide of Iron**, Ximenia, Americana Seed Oil, Aluminum Hydroxide, Phenoxyethanol, Sodium Dehydroacetate, Caprylyl Glycol, **Black Oxide of Iron**, Tocopherol, Water, Stearic Acid, Aloe Barbadensis Leaf Juice Powder, Silica Dimethyl Silylate, Sodium Hyaluronate

Key Ingredients

LX Talc STMC
LX SERICITE STMC
LX Bianco 200
LX MICA DSM
ELASTA SP101
SILIA LX7
Y-LL ASM
R-RL ASM
B-BL ASM

Formulation_Powder Pact2

Phase	Trade Name	INCI	%
A	LX Sericite STMC	Mica, Theobroma Cacao(Cocoa) Seed Butter, Dimethicone	33.00
	LX Talc STMC	Talc, Theobroma Cacao(Cocoa) Seed Butter, Dimethicone	24.05
	LX Bianco 200	Titamium dioxide, Triethoxycaprylylsilane	18.00
	LX MICA DSM	Mica, Dimethicone	10.00
	SILIA LX7	Silica	2.00
	Y-LL ASM	Iron Oxide Yellow, Triethoxycaprylylsilane	3.50
	R-RL ASM	Iron Oxide Red, Triethoxycaprylylsilane	0.70
	B-BL ASM	Iron Oxide Black, Triethoxycaprylylsilane	0.35
B	Hicos MCT	Caprylic/Capric Triglyceride	2.90
	SF1000N 100cs	Dimethicone	2.60
	SF 5600Z	Phenyl Trimethicone	2.00
	Parsol MCX	Ethylhexyl Methoxycinnamate	0.40
	spectrastat	Caprylhydroxamic Acid/Caprylyl Glycol/Glycerin	0.30
	Vitamin E acetate	Tocopherol Acetate	0.10
	Perfume	Tocopherol Acetate	0.10
			100.0

Ingredient

Titanium Dioxide, Synthetic Fluorphlogopite, **Silica**, Ethylhexyl Methoxycinnamate, Talc, Acrylates/Ethylhexyl Acrylate Copolymer, Boron Nitride, Vinyl Dimethicone/Methicone Silsesquioxane Crospolymer, Diphenylsiloxy Phenyl Trimethicone, Dimethicone, Magnesium Myristate, Cucumis Sativus (Cucumber) Fruit Extract, Vitis Vinifera (Grape) Fruit Extract, Citrus Unshiu Peel Extract, Gentiana Lutea Root Extract, Hydrolyzed Rice Bran Extract, Citrus Aurantifolia (Lime) Juice, Petrolatum;Vaseline, C9-15 Fluoroalcohol PhosphateDimethicone/ Vinyl Dimethicone Crosspolymer, Ascorbyl Glucoside, Hydrogen Dimethicone, Microcrvstalline Cellulose, Lauroyl Lysine, Trimethylsiloxysilicate, Phytosteryl/Octyldodecyl Lauroyl Glutamate, Palmitoyl Proline, Methicone, Magnesium Palmitoyl Glutamate, Sodium Palmitoyl Sarcosinate, Stearyl Glycyrrhetinate, Palmitic Acid, ocopherol, Saccharide Isomerate, Silica Dimethyl Silylate, Potassium Sorbate, Aluminum Dimyristate, Butylene Glycol;1,3-Butylene Glycol, Water, Alumina, Phenoxyethanol, **Mica,Sericite, Zinc Oxide, Yellow Oxide of Iron ,Red Oxide of Iron, Black Oxide of Iron**

Key Ingredients

LX TALC STMC
LX SERICITE STMC
LX Bianco 200
LX MICA DSM
Y-LL ASM
R-RL ASM
B-BL ASM

Formulation_Air Cushion #21

PHASE	RAW MATERIALS	INCI	%
A	TMS 803 50C	Cyclopentasiloxane/ Trimethyl siloxysilicate	16.00
	Microcare e9016	Cetyl PEG/PPG-10/1 Dimethicone	3.00
	KF-6038	Lauryl PEG-9 Polydimethylsiloxyethyl Dimethicone	0.50
	BRB 523	PEG/PPG–18/18 Dimethicone	0.70
	Dehymuls PGPH	Polyglyceryl Hydroxy Stearate	0.30
	PALSOL MCX	Ethylhexyl Methoxycinnamate	5.00
	DC245	Cyclopentasiloxane	5.00
	FZ-3196	Caprylyl methicone	2.00
	LX GEL A20	**Dimethicone, Dimethicone/Dimethicone Crosspolymer**	**2.00**
B	BENTON 38V CG	Disteardimonium Hectorite	0.60
	SF0015Z CM56	Cyclopentasiloxane, Cyclohexasiloxane	5.00
C	**LX TALC TTS**	**Talc, Trimethyl siloxysilicate**	**7.00**
	LX MICA AM	**Mica, Lauroyl lysine**	**4.00**
	DACHEA EZH TI65 M	**Please refer to LUXON MSDS**	**14.00**
	DACHEA EZH IOY 50	**Please refer to LUXON MSDS**	**2.40**
	DACHEA EZH IOR 50	**Please refer to LUXON MSDS**	**0.40**
	DACHEA EZH IOB 60	**Please refer to LUXON MSDS**	**0.12**
D	Water	Water	To 100
	Disodium EDTA	Disodium EDTA	q.a
	Sodium Chloride	Sodium Chloride	1.00
	Preservative	Phenoxyethanol, Caprylyl Glycol, 1,2hexandiol	q.a
	Allantoin	Allantoin	q.a
	MOILUB 1000	**Biosaccharide Gum-1**	**1.00**

Ingredient

D.I water, Cyclopentasiloxane, Methyltrimethicone, Butylene glycol, Ethylhexylmethoxycinnamate, Titanium dioxide (CI 77891), Mica, Cyclohexasiloxane, Trimethylsiloxysilicate, PEG-10dimethicone, Disteardimonium hectorite, Zinc oxide, Polyglyceryl-3 polyricinoleateTitanium dioxide, lauryl PEG-9 polydimethylsiloxyethyl dimethicone, Methyldimethylsiloxysilicate, trimethylsiloxysilicate, Dimethicone, Iron oxide yellow, acrylate / ethylhexyl acrylate / dimethicone methacrylate copolymer, acrylate / stearyl acrylate / dimethicone methacrylate copolymer,Sodium chloride, Aluminum hydroxide, Glycerin , Fragrance, Polysorbate 40, polysilicon-11, Polysorbate 80,Capryliliglycol, Triethoxycaprilylsilane, Iron oxide red, Lauroyl lysine, Stearic acid, Hydrogenated lecithin, Polyhydroxystearic acid, Ethylhexyl glycerin, Iron oxide Black, Disodium EDTA, Lecithin, Ethylhexyl palmitate, Isostearic acid, Isopropyl palmitate, Polyglyceryl-3 polyricinoleate

Key Ingredients

DACHEA EZH TI65 M
DACHEA EZH IOY 50
DACHEA EZH IOR 50
DACHEA EZH IOB 60
LX TALC TTS
LX MICA AM
LX GEL A20
MOILUB 1000

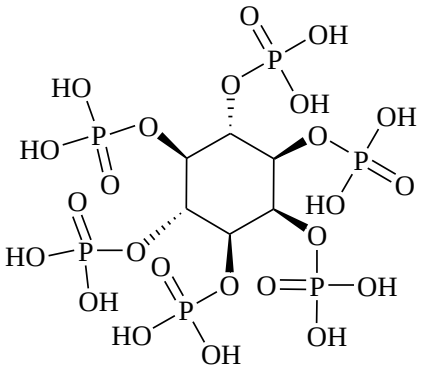
Philicsta Series

Our Proposal

	SPHESTA MD 7 (Standard Silica)	PHILICSTA MD7 **(Special Silica)**
Type	Spherical Powder	Spherical Powder
INCI	Silica	Silica & Phytic Acid
CAS. NO	7631-86-9	7631-86-9 & 83-86-3
Particle Size	5.0 ~ 9.0 um	5.0 ~ 9.0 um
Oil Absorption	50 ~ 90	70 ~ 110
Hydrophobicity [LXTM-007]	1.0 max	1.0 max

Coating Agent

Phytic Acid



C6H18O24P6
Exact Mass: 659.86
Mol. Wt.: 660.04
m/e: 659.86 (100.0%), 660.86 (6.5%),
661.87 (5.2%), 660.87 (1.1%)
C, 10.92; H, 2.75; O, 58.18; P, 28.16

No Sebum Toner with silica

LUXON

No Sebum Toner

IOPE
Pore Reset
Mattifying Toner

All ingredients

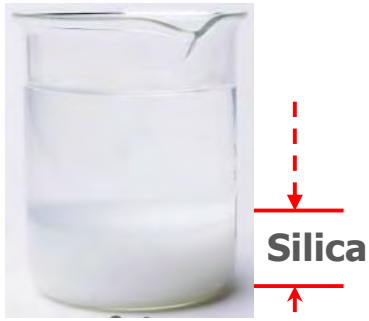
Water, Ethanol, Propanediol, Glyserine, 1,2 hexanediol,

Green tea extract, **Silica**, Bis-peg 18 methylethyldimethylsilane,

PG-60 Hydrogenated Castor Oil, Butylene Glycol, SmallIndium

magnesium silicate, ethylhexyl glycerin, calcium chloride,

2Na EDTA, fragrance



Silica layer

Silica function

- ✓ **Easy daily sebum care with powder toner**
- ✓ **Sensory additive**
- ✓ **Enhanced stability in O/W**

No Sebum Toner with silica

LUXON

No Sebum Toner

Pong Dang
Daily Clarifying
Facial Toner

All ingredients

Silica

정제수, 다마스크장미꽃수, 프로판다이올, 부틸렌글라이콜,
실리카, 1,2-헥산다이올, C12-14파레스-7, C12-14파레스-12,
소듐시트레이트, 에틸헥실글리세린, 시트릭애씨드,
멕시칸치아씨추출물, 병풀추출물, 녹차추출물, 약모밀추출물,
에우파토리아짚신나물추출물, 스페인감초뿌리추출물, 알란토인,
베르가모트오일, 해바라기씨오일, 소엽잎추출물,
다이소듐이디티에이, 흰무늬엉겅퀴씨추출물,
센티드제라늄꽃오일, 티트리잎추출물, 흰버드나무껍질추출물,
다마스크장미꽃오일, 흰목이버섯추출물, 편백잎추출물,
오레가노잎추출물, 프로폴리스추출물, 닥나무뿌리추출물,
눈빛승마추출물, 락토바실러스/콩발효추출물, 쇠비름추출물,
황금추출물, 육계나무껍질추출물, 펜틸렌글라이콜,
달맞이꽃추출물, 마데카소사이드

Silica layer

Silica function

- ✓ **Easy daily sebum care with powder toner**
- ✓ **Sensory additive**
- ✓ **Enhanced stability in O/W**

Our Proposal of Sebum Control TONER

Feature

Moist Feeling, Natural tone up

PHASE	Ingredient	INCI	%
A	D.I.WATER	Water	TO100
	MOILUB 701A	PEG/PPG-17/6 Copolymer	10.00
	ZEMEA PROPANDIOL	PROPANDIOL	5.00
	LX MOILUB 1000	Biosaccharide Gum-1	2.00
	NIKKOL BT-9, 10	C12-14 Pareth-9, C12-14 Pareth-12	p.S
	Sodium Citrate	Sodium Citrate	
B	PHILICSTA MD7	Silica, Phytic Acid	10.00
C	Natureclean RP9	Raspberry Ketone/Propanediol	2.50

Standard Operating Procedures

1. Heat phase A to 80℃
2. After phase B, put into phase A
   Homo mix at 1500RPM for 10 min
3. Put C-phase at 45℃
4 Finish after 35 ℃ cooling

Key Ingredients our products

PHILICSTA MD7

Commend

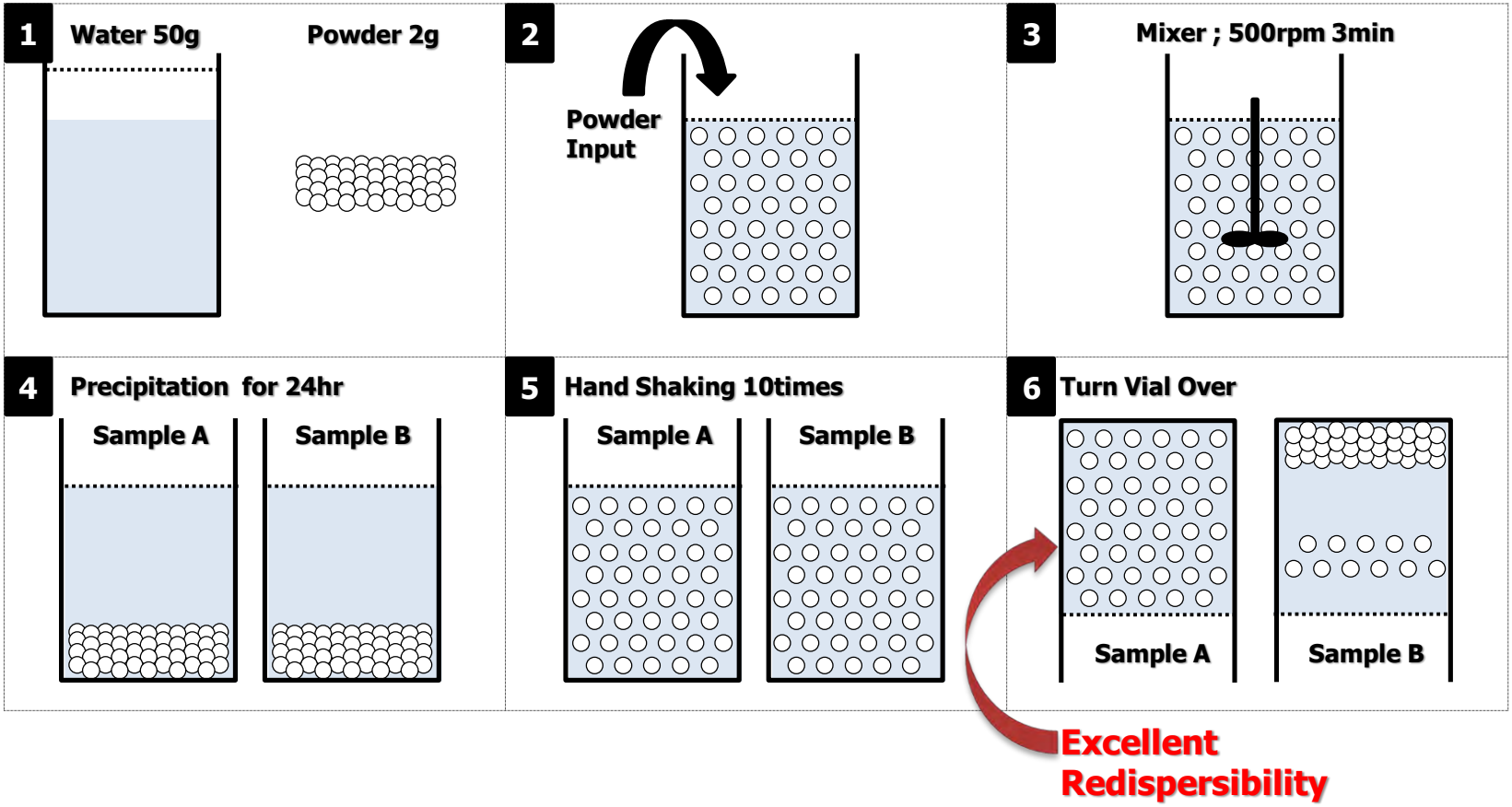
LX MOILUB 1000

MOILUB 701A

Redispersibility test of Water

Dispersion Test Method

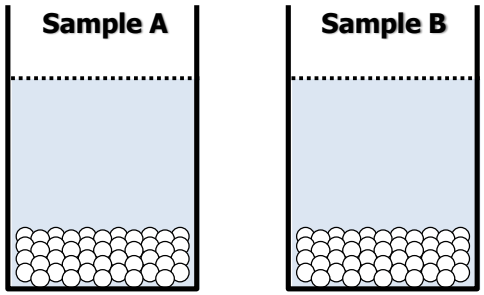
1. Water : 60g + 3g ; vial 100ml
2. Mixer (500rpm; 3min)
3. Precipitation for 24hr
4. Shaking 10times
5. Turn vial over
6. Check the redispersibility



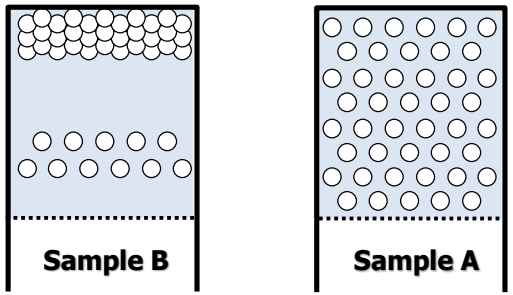
Test Result of redipsersibility Water

LUXON

Precipitation for 24hr



After Shaking 10times, Turn over



Excellent Redispersibility

Philicsta Pigment Series

Others Our Proposal

	PHILICSTA WHITE	PHILICSTA YELLOW	PHILICSTA RED	PHILICSTA BLACK
Type	TIO2	Iron Oxide	Iron Oxide	Iron Oxide
INCI	Titanium Dioxide & Phytic Acid	Iron Oxide Yellow & Phytic Acid	Iron Oxide RED & Phytic Acid	Iron Oxide Black & Phytic Acid
CAS. NO	13463-67-7 & 83-86-3	51274-00-1 & 83-86-3	1309-37-1 & 83-86-3	12227-89-3 & 83-86-3
Particle Size	250nm	2um max	2um max	2um max
Oil Absorption	20 ~ 50	70 ~ 110	20 ~ 50	20 ~ 50
Hydrophobicity [LXTM-007]	1.0 max	1.0 max	1.0 max	1.0 max

Application

Color cosmetic

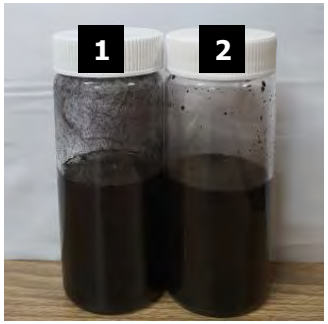
Eyeshadow

Easy dispersible without grinding

Enhanced stability in O/W

Test Result of redispersibility in water

1 : Raw Material **2** : Philicsta Series

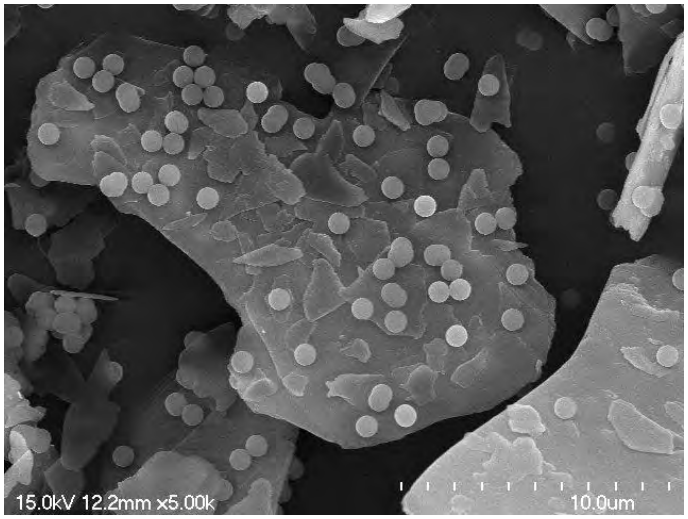
In put powder 500rpm; 3min				
Precipitation for 24hr				
Hand Shaking 10times Turn Over				

Excellent Redispersibility

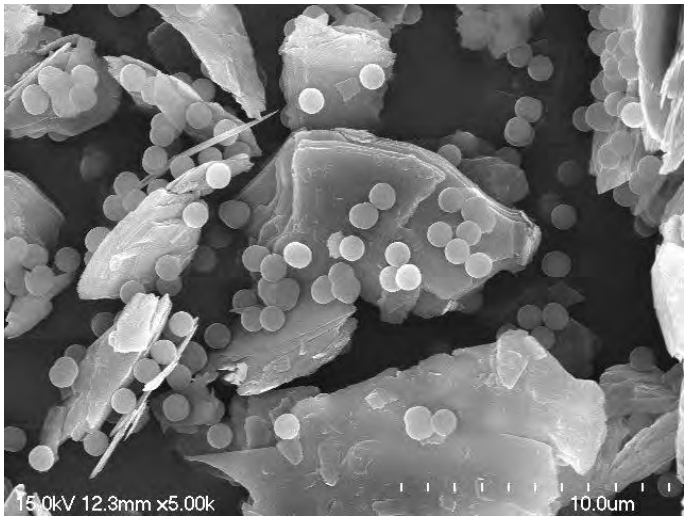
Complex Powder

Grade	Descriptions	Our proposal	Avg. Particle size(nm)	Oil Absorption (ml/100g)
LX Mimisil	Mica & Silica	Natural skin tone for skin care & make up	10 ~ 16	80 ~ 120
LX Tamisil	Talc 46R % Silica		8 ~ 15	30 ~ 70

LX Mimisil

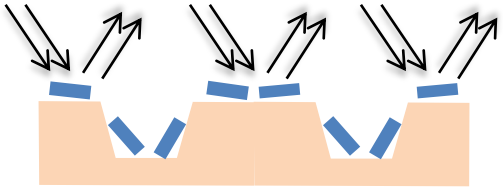


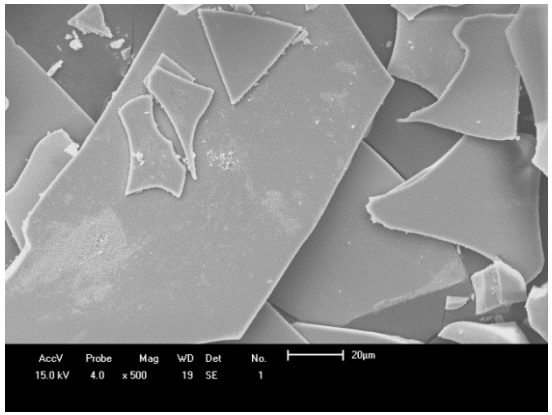
LX Tamisil



Why Complex Powder

Before complex





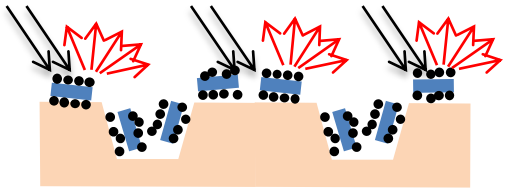
Before

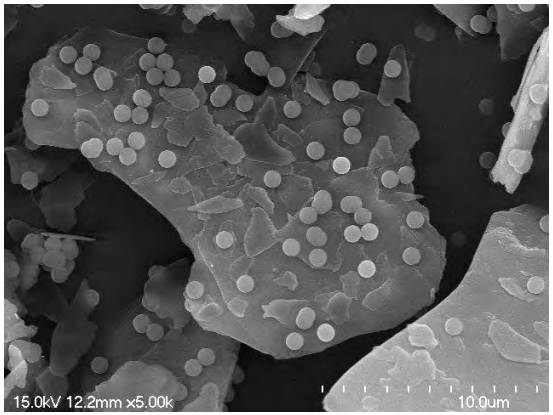
General reflection

Luster 2D substrate

Light reflection

After complex





After

Less visible skin imperfection

Natural skin tone

Light transmitting

Scattering, Reduce contrast

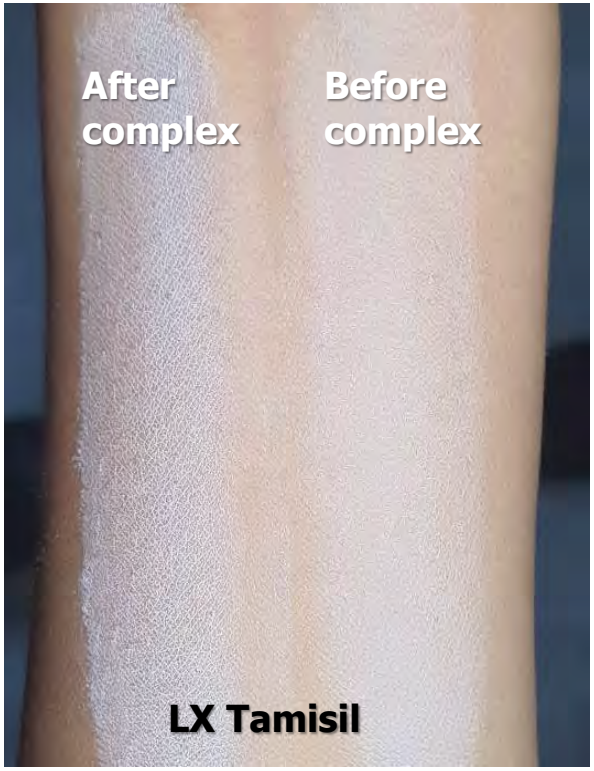
Visual comparison

LUXON

Mica

Good
for skin care and make up

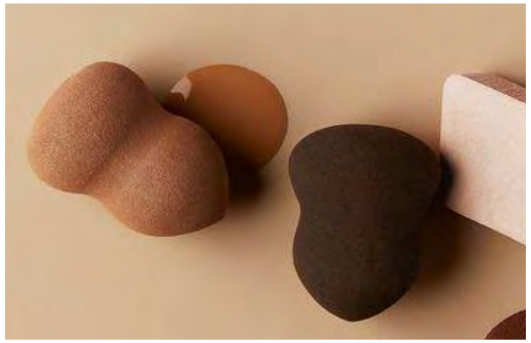
Talc 46R

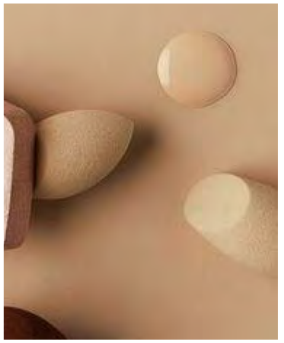


Natural skin tone
for skin care and make up

Pigment Dispersion Technology

Version 3.2





For more information

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E-Mail : sales01@luxonkorea.co.kr
Office telephone: +82-31-943-7751
Cellular Phone: +82-10-9869-7751

Color Dispersion Series

	Trade Name	INCI NAME	Character
Pigment Dispersion	EZH T170	Titanium Dioxide, Butylene Glycol, Poly sorbate, Triethoxycaprylylsilane, Alumina, Silica, Hydeogened Lecithin.	TiO2 70%
	EZ TI50	Titanium Dioxide & Butylene Glycol & Poly sorbate & Triethoxycaprylylsilane & Alumina & Silica & Rosin & Lecithin.	TiO2 50%
	EZH IOY50	I.O.Yellow, Propylene Glycol, Butylene Glycol, Poly sorbate, Triethoxycaprylylsilane, Silica, Hydeogened Lecithin.	Iron Oxide Yellow 50%
	EZ IOY40	I.O.Yellow & Propylene Glycol & Butylene Glycol & Poly sorbate & Triethoxycaprylylsilane & Silica & Rosin	Iron Oxide Yellow 40%
	EZH IOR55	I.O.Red, Propylene Glycol, Butylene Glycol, Poly sorbate, Triethoxycaprylylsilane, Hydeogened Lecithin.	Iron Oxide Red 55%
	EZ IOR40	I.O.Red & Propylene Glycol & Butylene Glycol & Poly sorbate & Triethoxycaprylylsilane & Rosin	Iron Oxide Red 40%
	EZH IOB60	I.O.Black, Propylene Glycol, Butylene Glycol, Poly sorbate, Triethoxycaprylylsilane, Silica, Hydeogened Lecithin.	Iron Oxide Black 60%
	EZH IOB40	I.O.Black & Propylene Glycol & Butylene Glycol & Poly sorbate & Triethoxycaprylylsilane & Silica & Rosin	Iron Oxide Black 40%

Dispersion processing and SPEC

Dispersion Technology

Pre-treatment → Pre-mix → Milling → Post-Treatment → QC → Product Packing

Dispersion For High Viscosity Formulation

Product Name	Color	%	INCI	Viscosity
EZH TI70		70	Titanium Dioxide, Butylene Glycol, Poly sorbate, Triethoxycaprylylsilane, Alumina, Silica, *Hydrogenated Lecithin.*	PASTE
EZ TI50		50	Titanium Dioxide, Water, Butylene Glycol, Polysorbate 80, Aluminum Hydroxide, 1,2-Hexanediol, Rosin	LIQUID
EZH IOY50		50	I.O.Yellow, Propylene Glycol, Butylene Glycol, Poly sorbate, Triethoxycaprylylsilane, Silica, *Hydrogenated Lecithin.*	PASTE
EZ IOY40		40	I.O.Yellow, Water, Butylene Glycol, Polysorbate 60, Aluminum Hydroxide, 1,2-Hexanediol, Rosin	LIQUID
EZH IOR55		55	I.O.Red, Propylene Glycol, Butylene Glycol, Poly sorbate, Triethoxycaprylylsilane, *Hydrogenated Lecithin.*	PASTE
EZ IOR40		40	I.O.Red, Water, Butylene Glycol, Polysorbate 60, Aluminum Hydroxide, 1,2-Hexanediol, Rosin	LIQUID
EZH IOB60		60	I.O.Black, Propylene Glycol, Butylene Glycol, Poly sorbate, Triethoxycaprylylsilane, Silica, *Hydrogenated Lecithin.*	PASTE
EZ IOB40		40	I.O.Black, Water, Butylene Glycol, Polysorbate 60, Aluminum Hydroxide, 1,2-Hexanediol, Rosin	LIQUID

Recommended : W/S, W/O or O/W, Foundation, Cushion BB, BB & CC cream, Tone-Up Cream etc,

LUXON

Compare Test of Before and After Milling

Coating Surface Compare

*After milling, the coating surface is more smoother

Color Compare

*After milling, the color became closer to the original color.

Water Solubility Test of Dispersion

EZIOR45 (Iron oxide red) droped in D.I water

Mixing

Mixing

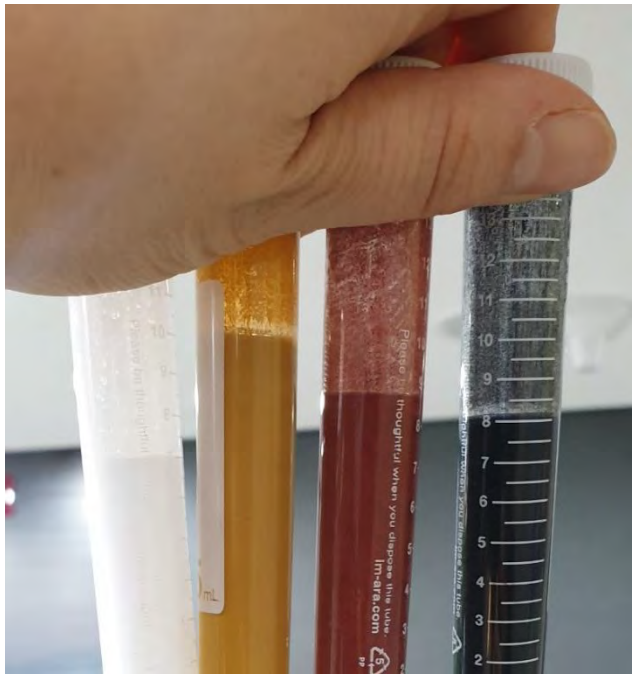
Completely dissolved

Dispersion Stability Testing 1

Centrifugal separator test

Test Condition

4000 RPM ; 10 Mins



Dispersion Stability Testing 2

Test Condition

Ambient temperature (20~25℃)
For 4 months

2018.11.08					
2019.01.30					
2019.02.18					

Formulation_ESTEE LAUDER Double Wear Stay-in Place Make up

Double Make-up Foundation (SPF 30 PA++)

PHASE	RAW MATERIALS	INCI	%
A	TMS 803 50C	Cyclopentasiloxane/ Trimethyl siloxysilicate	25.00
	Microcare e9016	Cetyl PEG/PPG-10/1 Dimethicone	3.50
	REODOL AO-15	Sorbitan Sesquioleate	1.50
B	DC 245	Cyclopentasiloxane	5.00
	BENTON 38V CG	Disteardimonium Hectorite	1.50
C	LX MICA DSM	Mica, Dimethicone	1.00
	LX PMSQ P50	Polymethylsilsesquioxane	2.00
	SPHESTA MD 7	Silica	2.00
D	DACHE EZH Ti70	Please refer to MSDS	18.00
	DACHE EZH IOY50	Please refer to MSDS	2.60
	DACHE EZH IOR55	Please refer to MSDS	0.70
	DACHE EZH IOB60	Please refer to MSDS	0.15
E	Water	Water	To 100
	Disodium EDTA	Disodium EDTA	0.02
	Sodium Chloride	Sodium Chloride	1.50
	LX MOILUB 1000	Biosaccharide Gum-1	0.50
	Preservative	Phenoxyethanol, Caprylyl Glycol, 1,2hexandiol	2.00
	Allantoin	Allantoin	0.02
	D-Panthenol	D-Panthenol	0.02

Lab No.: HTT0828FD-LA01

Ingredients:

Water/Aqua/Eau, Cyclopentasiloxane, Trimethylsiloxysilicate, Butylene Glycol, PEG/PPG-18/18 Dimethicone, Polyglyceryl-3 Diisostearate, Magnesium Sulfate, Tribehenin, Titanium Dioxide, Tocopheryl Acetate, Methicone, Polymethylsilsesquioxane, Laureth-7, Disteardimonium Hectorite, Cellulose Gum, Propylene Carbonate, Xanthan Gum, Pentaerythrityl Tetra-Di-T-Butyl Hydroxyhydrocinnamate, Alumina, Phenoxyethanol, Sodium Dehydroacetate,
[+/- Titanium Dioxide (Ci 77891), Mica, Iron Oxides (Ci 77491, Ci 77492, Ci 77499)]

Key Ingredients of LUXON products

DACHE EZH Ti70
DACHE EZH IOY50
DACHE EZH IOR55
DACHE EZH IOB60
LX MICA DSM
LX PMSQ P50
SPHESTA MD 7
MD 7

Recommend use with
LX MOILUB 1000

Formulation_HERA Black Foundation

Moisture fit Foundation (SPF 15 PA+)

PHASE	RAW MATERIALS	INCI	%
A	TMS 803 50C	Cyclopentasiloxane/ Trimethyl siloxysilicate	20.00
	Microcare e9016	Cetyl PEG/PPG-10/1 Dimethicone	3.50
	REODOL AO-15	Sorbitan Sesquioleate	2.00
	Parsol MCX	Ethylhexyl Methoxycinnamate	5.00
B	Dowsil F2-3196	Caprylyl Methicone	5.00
	BENTON 38V CG	Disteardimonium Hectorite	0.50
C	LX MICA AM	Mica, Lauroyl lysine	1.00
	LX PMSQ P50	Polymethylsilsesquioxane	2.00
	SPHESTA MD 7	Silica	2.00
D	DACHE EZH Ti70	Please refer to MSDS	25.00
	DACHE EZH IOY50	Please refer to MSDS	5.60
	DACHE EZH IOR55	Please refer to MSDS	1.60
	DACHE EZH IOB60	Please refer to MSDS	0.2
E	Water	Water	To 100
	Disodium EDTA	Disodium EDTA	0.02
	Sodium Chloride	Sodium Chloride	1.50
	LX MOILUB 1000	Biosaccharide Gum-1	0.50
	Preservative	Phenoxyethanol, Caprylyl Glycol, 1,2hexandiol	2.00
	Allantoin	Allantoin	0.02
	D-Panthenol	D-Panthenol	0.02

Lab No.: HTT0828FD-LB01

Ingredients:

Water / Aqua / Eau, Titanium Dioxide (Ci 77891), Cyclopentasiloxane, Caprylyl Methicone, Methyl Trimethicone, Ethylhexyl Methoxycinnamate, Propanediol, Iron Oxides (Ci 77492), Trimethylsiloxysilicate, Peg-10 Dimethicone, Polymethyl Methacrylate, Silica, Hexyl Laurate, Cetyl Peg/Ppg-10/1 Dimethicone, Polyglyceryl-4 Isostearate, Acrylates/Ethylhexyl Acrylate/Dimethicone Methacrylate Copolymer, Disteardimonium Hectorite, Cyclohexasiloxane, Sodium Chloride, Isododecane, 1, 2-Hexanediol, Iron Oxides (Ci 77491), Isopropyl Titanium Triisostearate, Pentylene Glycol, Mica, Acrylates/Dimethicone Copolymer, Aluminum Hydroxide, Fragrance / Parfum, Bis-Peg-15 Dimethicone/Ipdi Copolymer, Caprylyl Glycol, Peg-2 Soyamine, Glyceryl Caprylate, Disodium Edta, Benzyl Salicylate, Iron Oxides (Ci 77499), Lauroyl Lysine, Hydroxycitronellal, Alpha-Isomethyl Ionone, Ethylhexyl Palmitate, Rosa Damascena Flower Water, Linalool, Limonene, Hexyl Cinnamal, Butylene Glycol, Silica Dimethyl Silylate, Sodium Hyaluronate, Pentaerythrityl Tetra-Di-T-Butyl Hydroxyhydrocinnamate, Phenoxyethanol, Rubus Fruticosus (Blackberry) Fruit Extract, Hexylene Glycol, Ethylhexylglycerin, Fragaria Vesca (Strawberry) Leaf Extract.

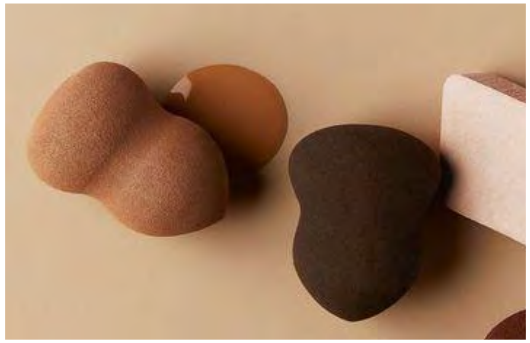
Key Ingredients of LUXON products

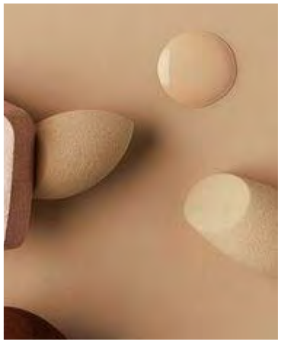
DACHE EZH Ti70
DACHE EZH IOY50
DACHE EZH IOR55
DACHE EZH IOB60
LX MICA DSM
LX PMSQ P50
SPHESTA MD 7

Recommend use with
LX MOILUB 1000

SUNCARE Mineral Technology

Version 3.2





For more information

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Office telephone: +82-31-943-7751
Cellular Phone: +82-10-9869-7751

UV Filter Dispersion Series

ZnO Dispersion Series

	Trade Name	INCI NAME	Character
ZnO Dispersion	LX DZN(DZ) 40 AB	ZnO/C12~15 Alkyl Benzoate/Polyhydroxy stearic acid / Triethoxycaprylylsilane	30nm(150nm) ZnO 40%
	LX DZN(DZ) 705	ZnO & Cyclopentasiloxane & PEG-10 Dimethicone & Triethoxycaprylylisilane	30nm(150nm) ZnO 70%
	LX DZN(DZ) 65C	ZnO & Dicaprylyl carbonate & Polyhydroxy stearic acid & Triethoxycaprylylisilane	30nm(150nm) ZnO 65%
	LX DZN(DZ) 65CC	ZnO & Coco caprylate/caprate & Polyhydroxy stearic acid & Triethoxycaprylylisilane	30nm(150nm) ZnO 65%
	LX DZN(DZ) 65AB	ZnO & C12-15 Alkyl Benzoate & Polyhydroxy stearic acid & Triethoxycaprylylisilane	30nm(150nm) ZnO 65%
	LX DZN(DZ) 65W	ZnO & Water & 1,3-Butylene Glycol & Polysorbate 60 & Oleth 10 & 1,2–Hexanediol & Rosin & Triethoxycaprylylisilane	30nm(150nm) ZnO 65%

TiO2 Dispersion Series

	Trade Name	INCI NAME	Character
TiO2 Dispersion	LX DTN 405	TiO2 & Cyclopentasiloxane & PEG-10 Dimethicone & Stearic acid & Aluminum Hydroxide	15nm TiO2 40%
	LX DTN 555	TiO2 & Cyclopentasiloxane & PEG-10 Dimethicone & Stearic acid & Aluminum Hydroxide	15nm TiO2 55%
	LX DTN 40 AB	TiO2/Alumina/C12~15 Alkyl Benzoate/ Polyhydroxy stearic acid/Aluminum stearate/Alumina	15nm TiO2 40%
	LX DT 605	TiO2 & Cyclopentasiloxane & PEG-10 Dimethicone & Triethoxycaprylylisilane & Silica	30nm TiO2 60%
	LX DT 60C	TiO2 & Dicaprylyl carbonate & Polyhydroxy stearic acid & Triethoxycaprylylisilane & Silica	30nm TiO2 60%
	LX DT 60CC	TiO2 & Coco caprylate/caprate & Polyhydroxy stearic acid & Triethoxycaprylylisilane & Silica	30nm TiO2 60%
	LX DT 60AB	TiO2 & C12-15 Alkyl Benzoate & Polyhydroxy stearic acid & Triethoxycaprylylisilane & Silica	30nm TiO2 60%
	LX DT 55W	TiO2 & Water & 1,3-Butylene Glycol & Polysorbate 60 & Oleth 10 & 1,2–Hexanediol & Rosin & Triethoxycaprylylisilane & Silica	30nm TiO2 55%

UV Filter Series

ZnO Series

	Trade Name	INCI NAME	Character
ZnO	LX-HPA 30	Zinc Oxide & Triethoxycaprylylsilane	D50 : 30nm ~ 60nm
	LX-HPA 30N (* 30NL, 30NLL)	Zinc Oxide & Silica & Stearic acid (* Hydrogenated Lecithin or Lauroyl lysine)	D50 : 30nm ~ 60nm || Natural coating
	LX-HPA 150	Zinc Oxide & Triethoxycaprylylsilane	D50 : 100nm ~ 200nm
	LX-HPA 150N (* 150NL, 150NLL)	Zinc Oxide & Silica & Stearic acid (* Hydrogenated Lecithin or Lauroyl lysine)	D50 : 100nm ~ 200nm || Natural coating
	LX-SS 150	Zinc Oxide & Silica & Triethoxycaprylylsilane	D50 : 100nm ~ 200nm
	LX-SS150N (* SS150NLL)	Zinc oxide & Silica & Stearic acid(* Lauroyl lysine)	D50 : 100nm ~ 200nm || Natural coating
	LX-SS 500	Zinc oxide & Silica & Triethoxycaprylylsilane	D50 : 300nm ~ 700nm
	LX-SS 500N (SS500NLL)	Zinc oxide & Silica & Stearic acid(* Lauroyl lysine)	D50 : 300nm ~ 700nm || Natural coating

TiO2 Series

	Trade Name	INCI NAME	Character
TiO2	LX-100TV	Titanium Dioxide & Aluminum Hydroxide & Stearic acid	D1 : 0.03 Min, D50 : 0.04 Min ll Natural coating
	NT 95	Titanium Dioxide & Aluminum Hydroxide & Stearic acid	D1 : 0.03 Min, D50 : 0.04 Min ll Natural coating
	Micro Bianco	Titanium Dioxide & Silica & Triethoxycaprylylsilane	D50 : 30nm ~ 60nm
	Micro Bianco N (*NL, NLL)	Titanium Dioxide & Silica & Stearic acid (* Hydrogenated Lecithin or Lauroyl lysine)	D50 : 30nm ~ 60nm || Natural coating
	LX Bianco 200	Titanium Dioxide & Aluminum Hydroxide & Triethoxycaprylylsilane	D50 : 200nm ~ 300nm
	LX Bianco 200N (*NL, NLL)	Titanium Dioxide & Aluminum Hydroxide & Stearic acid (* Hydrogenated Lecithin or Lauroyl lysine)	D50 : 200nm ~ 300nm || Natural coating

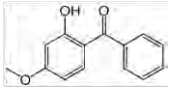
Cosmetics Market Issue

The coral reefs in the sea exposed to the ingredients in question gradually turn white and die.

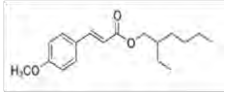
Data source : the inertia & http://www.mrtt.news

West City
Hawaii

Oxybenzone



Octinoxate



Best Sales Product_suncare

Shiseido, the no.1 of suncare brand

Ingredient

Dimethicone, **Zinc Oxide, Titanium Dioxide,** Water, Butylene Glycol, Glycerin, Diisopropyl sebacate, **Polymethyl Methacrylate**, Hydrogenated Polydecene, PEG-10 Dimethicone, PEG-9 Polydimethylsiloxyethyl Dimethicone, Cyclomethicone, Bis-butyldimethicone polyglyceryl-3, Aluminum distearate, Aluminum hydroxide, Hydrogen Dimethicone, **Isostearic Acid**, Trimethylsiloxysilicate, PEG-6, PEG-32, **PEG/PPG-14/7 dimethyl ether**, Disteardimonium Hectorite, Hydrated silica, Sodium metaphosphate, Triethoxycaprylylsilane, Stearic Acid, Dextrin palmitate, Scutellaria Baicalensis Root Extract, Distearyldimonium chloride, Rubus Idaeus Fruit Extract, Tocopherol, Aloe Barbadensis Leaf Juice, Thymus Serpillum Leaf Extract, Syzygium Jambos Leaf Extract

Shiseido Perfect UV Protector S

WetForce
Mineral Only

Key Ingredients

1. Zinc Oxide
2. Titanium Dioxide
3. Film former : Isostearic Acid,
PEG/PPG-14/7 dimethyl ether
- Sensory additive : Poly Methyl Methacrylate

OVERVIEW

LUXON SUN CARE products

Zinc Oxide

1. ZnO Dispersion

LX DZN(DZ) 40 AB
LX DZN(DZ) 705
LX DZN(DZ) 65C
LX DZN(DZ) 65CC
LX DZN(DZ) 65AB
LX DZN(DZ) 65W

2. ZnO Powder

LX-HPA 30
LX-HPA 30N (* 30NL, 30NLL)
LX-HPA 150
LX-HPA 150N (* 150NL, 150NLL)
LX-SS 150
LX-SS150N (* SS150NLL)
LX-SS 500
LX-SS 500N (*SS500NLL)

Titanium Dioxide

3. TiO_2 Dispersion

LX DTN 405
LX DTN 555
LX DTN 40 AB
LX DT 605
LX DT 60C
LX DT 60CC
LX DT 60AB
LX DT 55W

4. TiO_2 Powder

LX-100TV
Micro Bianco
Micro Bianco N(*NLL)
LX Bianco 200
LX Bianco 200N(*NLL)
LX TIS – 35
LX TIS – 35ASM

LUXON SUNCARE DISPERSION

Uniformity of components

ZnO Dispersion

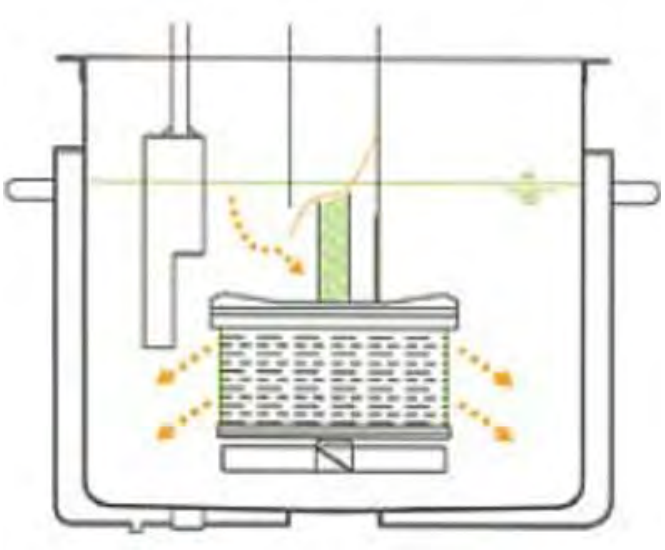
AB Oil base 30 or 150nm ZnO

D5 Oil base 30 or 150nm ZnO

CC Oil base 30 or 150nm ZnO

DC Oil base 30 or 150nm ZnO

Water base 30 or 150nm ZnO



TiO_2 Dispersion

AB Oil base 20 or 30nm TiO_2

D5 Oil base 20 or 30nm TiO_2

CC Oil base 30nm TiO_2

DC Oil base 30nm TiO_2

Water base 30nm TiO_2

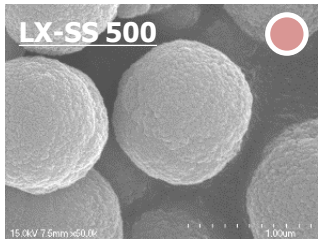
Enhanced UV protection

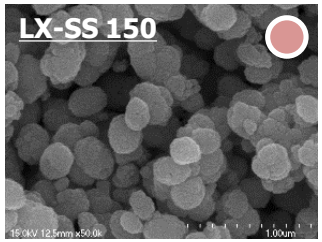
Increased transparency

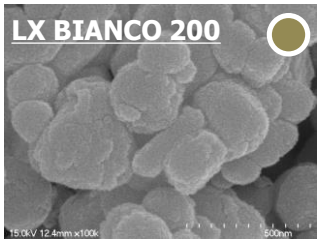
* The measurement chart may vary depending on the surface treatment.

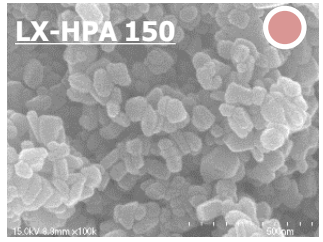
http://www.armstec.co.kr/bbs/content.php?co_id=sub020201

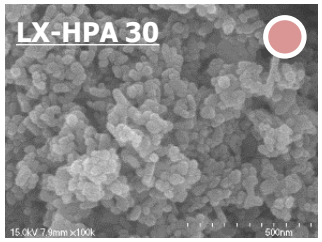
LUXON ZINC OXIDE

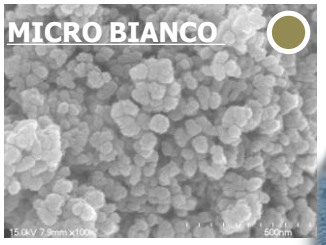


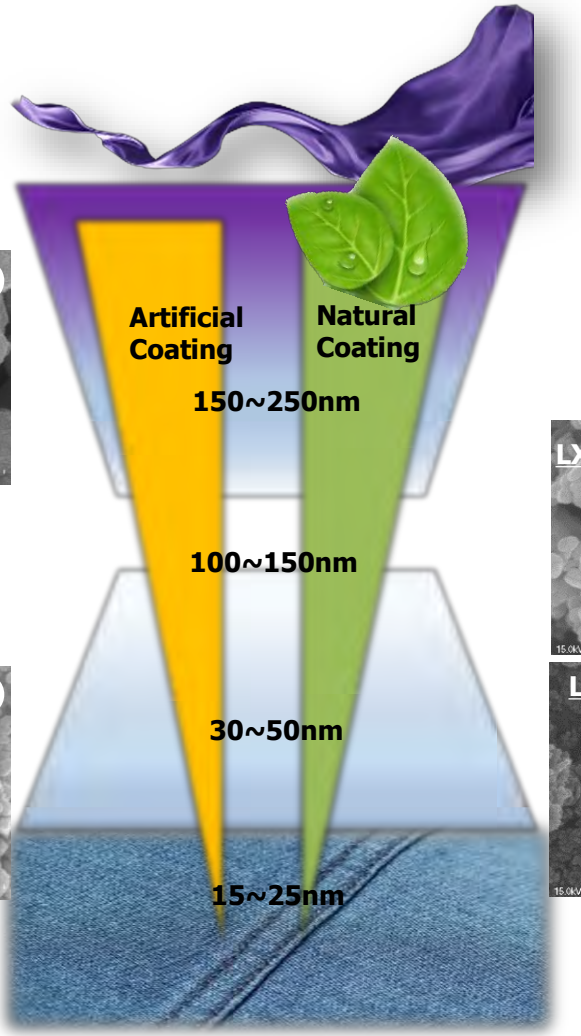




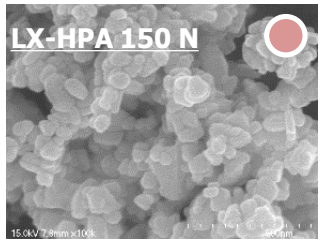


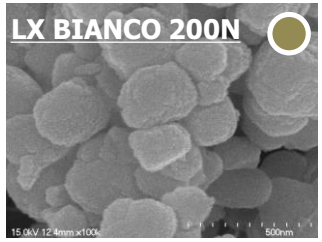


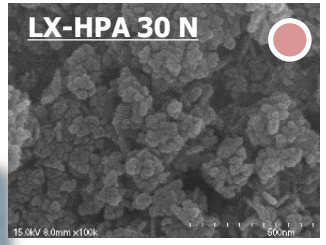


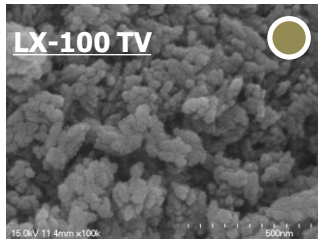


< Coating Agent 4% >









● TiO_2 Powder
● ZnO Powder

Patent Number: KR 10-20347830000, KR 10-1994980, CN ZL201911059904.0

LX-Dispersion

LUXON SUN CARE products

Zinc Oxide

1. ZnO Dispersion

LX DZN(DZ) 40 AB
LX DZN(DZ) 705
LX DZN(DZ) 65C
LX DZN(DZ) 65CC
LX DZN(DZ) 65AB
LX DZN(DZ) 65W

2. ZnO Powder

LX-HPA 30
LX-HPA 30N (* 30NL, 30NLL)
LX-HPA 150
LX-HPA 150N (* 150NL, 150NLL)
LX-SS 150
LX-SS150N (* SS150NLL)
LX-SS 500
LX-SS 500N (*SS500NLL)

Titanium Dioxide

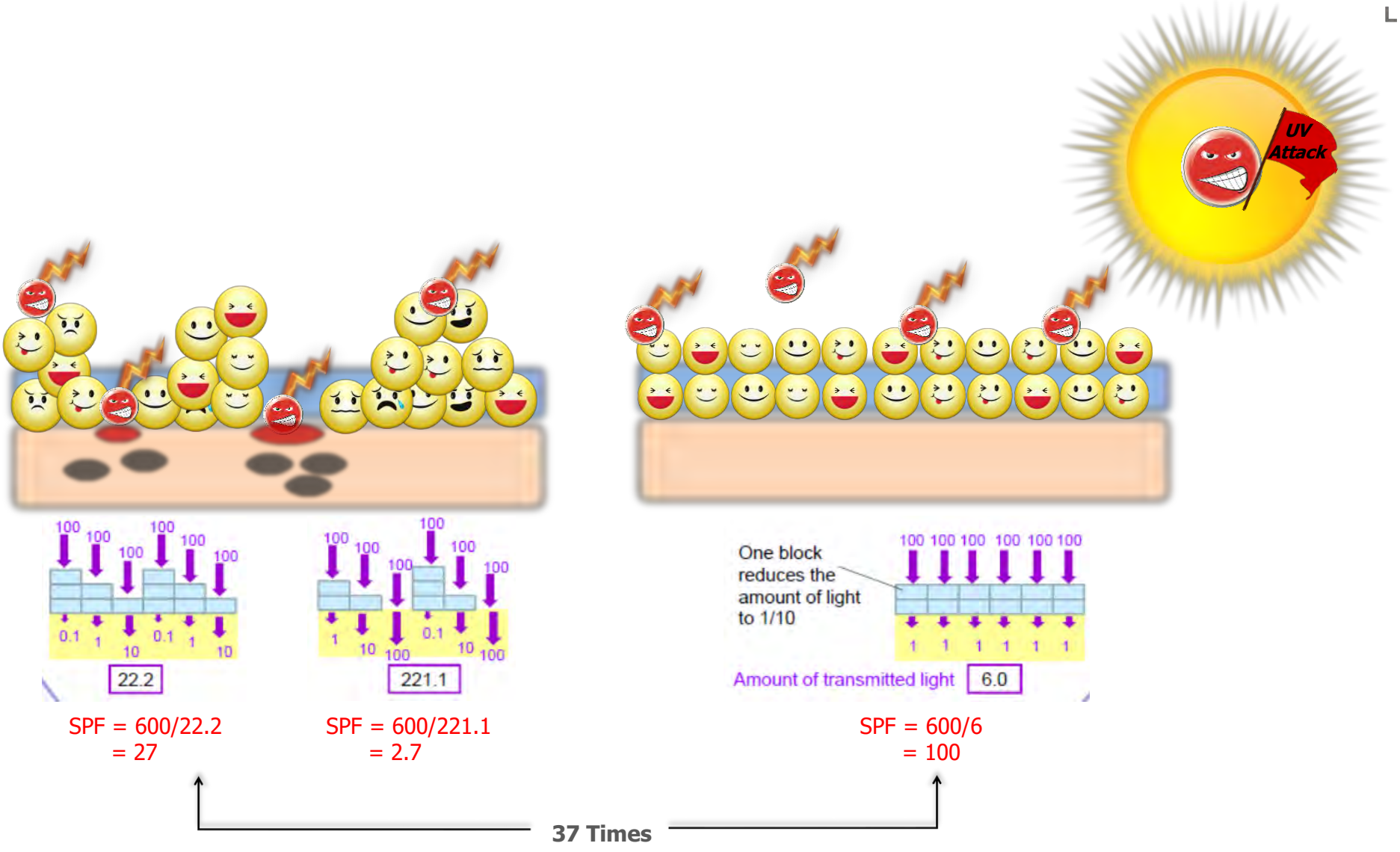
3. TiO_2 Dispersion

LX DTN 405
LX DTN 555
LX DTN 40 AB
LX DT 605
LX DT 60C
LX DT 60CC
LX DT 60AB
LX DT 55W

4. TiO_2 Powder

LX-100TV
Micro Bianco
Micro Bianco N(*NLL)
LX Bianco 200
LX Bianco 200N(*NLL)
LX TIS – 35
LX TIS – 35ASM

Comparsion of UV protection effects

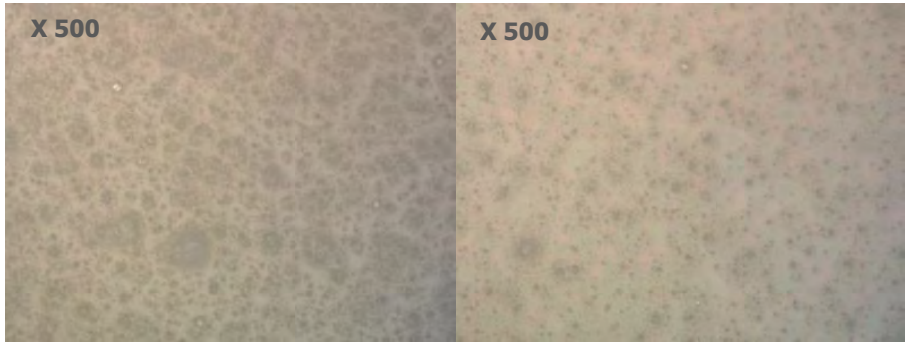


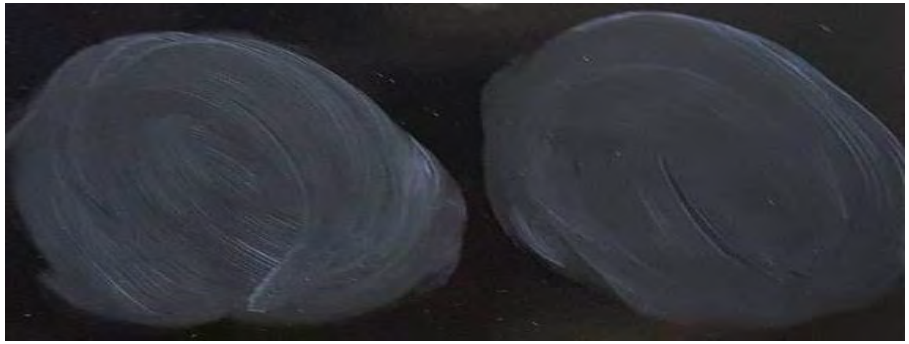
Data Source: Development of an autonomous water-responsive coating film and its application as an innovative sunscreen, IFSCC POSTER

Detailed Comparison of Powder and Dispersion fluid

HTT1223SB-CA10

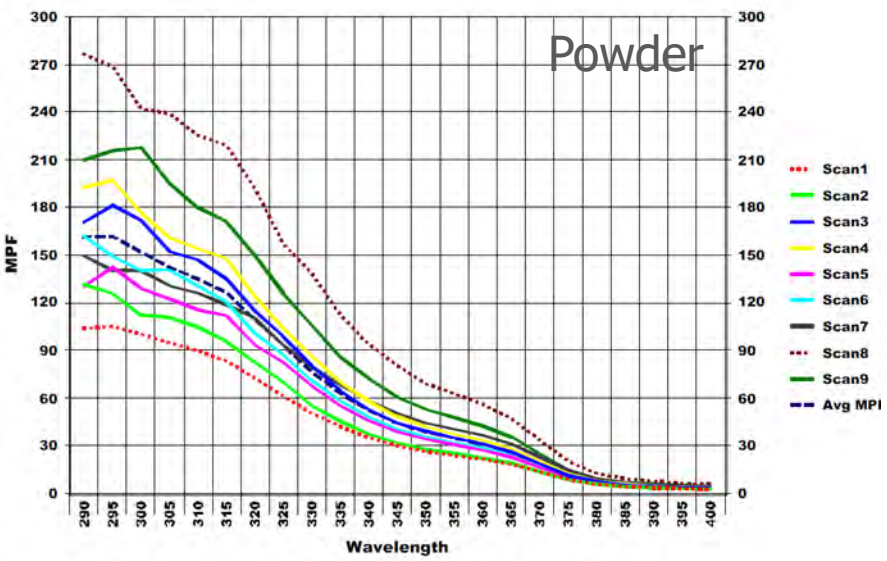
HTU0115SB-CA11

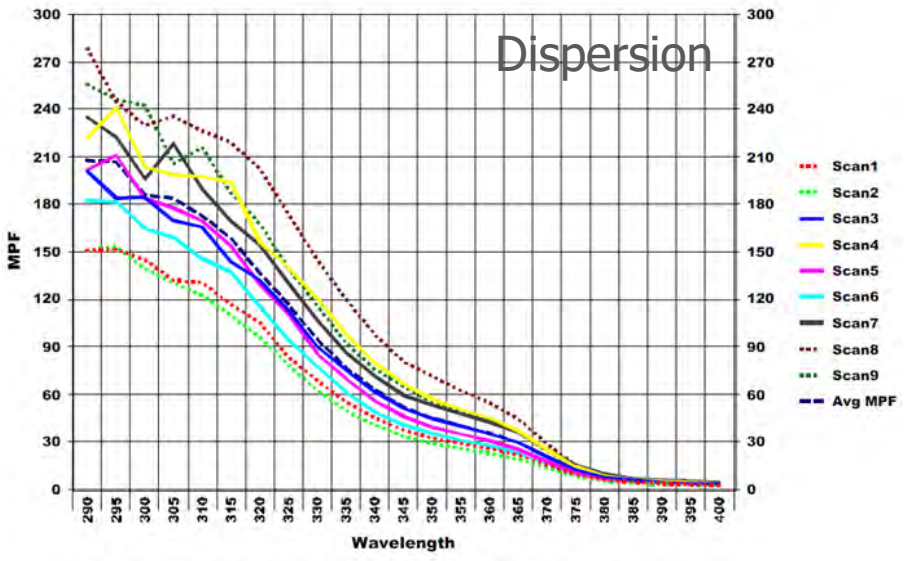




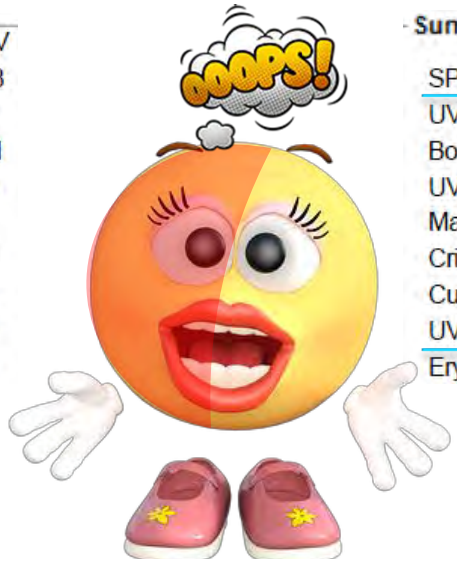
PHASE	Ingredient	INCI	HTT1223SB-CA10 %	HTU0115SB-CA11 %
A	DC 245	Cyclopentasiloxane	18.00	15.00
	SeraSense SF PTM	Phenyl trimethicone	600	6.00
	LX GEL A 20	Dimethicone, Dimethicone/Dimethicone Crosspolymer	5.00	5.00
B	Cetiol CC	Dicaprylyl Carbonate	5.00	5.00
	BENTON 38V CG	Disteardimonium Hectorite	0.300	0.30
C	Microcare e9016	Cetyl PEG/PPG-10/1 Dimethicone	3.00	1.20
	Plurol Diisostearique	Polyglyceryl-3 Diisostearate	0.50	0.50
	RHEODOL AO-15	Sorbitan Sesquioleate	0.50	0.50
D	LX HPA-150	Zinc Oxide, Triethoxycaprylylsilane	18.00	
	NT 95	Titanium Dioxide, Aluminum Hydroxide, Isostearic Acid	300	
D'	LX SS500	Silica	2.00	2.00
	LX DZT 60	Zinc Oxide, Titanium Dioxide, Aluminum Hydroxide, Isostearic Acid, Cyclopentasiloxane , Cetyl PEG/PPG-10/1 Dimethicone, Triethoxycaprylylsilane		20.00
	LX DZ705E	Zinc Oxide, Cyclopentasiloxane , Cetyl PEG/PPG-10/1 Dimethicone, Triethoxycaprylylsilane		10.00
	Water	Water	TO.100	TO.100
E	LX MOILUB 1000	Biosaccharide Gum-1	2.00	2.00
	MOILUB 701A	PEG/PPG-17/6 Copolymer	2.00	2.00
	Sodium Chloride	Sodium Chloride	1.20	1.20
	Disodium EDTA	Disodium EDTA	0.02	0.02
F	Natureclean RP9	Raspberry Ketone/Propanediol	2.50	2.50

Detailed Comparison of Powder and Dispersion fluid





Summary Results	Value	STDV
SPF:	80.96	17.38
UVA/UVB ratio:	0.622	0.02
Boots Star Rating (2004):	3	Good
UVA I/UV Ratio:	0.74	High
Max %T COV:	21.67	
Critical Wavelength:	378.1	0.51
Curve Area:	171.66	9.02
UVA PF:	37.17	7.37
Erythema UVA PF:	30.68	5.83



Summary Results	Value	STDV
SPF:	94.71	15.59
UVA/UVB ratio:	0.617	0.02
Boots Star Rating (2004):	3	Good
UVA I/UV Ratio:	0.74	High
Max %T COV:	20.7	
Critical Wavelength:	377.9	0.53
Curve Area:	178.97	7.72
UVA PF:	44.47	7.65
Erythema UVA PF:	33.49	5.76

SUNMILK Formulation ZnO 25% + TiO_2 20%
Powder Vs Dispersion Invitro(SPF-290) test

LX-ZnO Powder

LUXON SUN CARE products

Zinc Oxide

1. ZnO Dispersion

LX DZN(DZ) 40 AB
LX DZN(DZ) 705
LX DZN(DZ) 65C
LX DZN(DZ) 65CC
LX DZN(DZ) 65AB
LX DZN(DZ) 65W

2. ZnO Powder

LX-HPA 30
LX-HPA 30N (* 30NL, 30NLL)
LX-HPA 150
LX-HPA 150N (* 150NL, 150NLL)
LX-SS 150
LX-SS150N (* SS150NLL)
LX-SS 500
LX-SS 500N (*SS500NLL)

Titanium Dioxide

3. TiO2 Dispersion

LX DTN 405
LX DTN 555
LX DTN 40 AB
LX DT 605
LX DT 60C
LX DT 60CC
LX DT 60AB
LX DT 55W

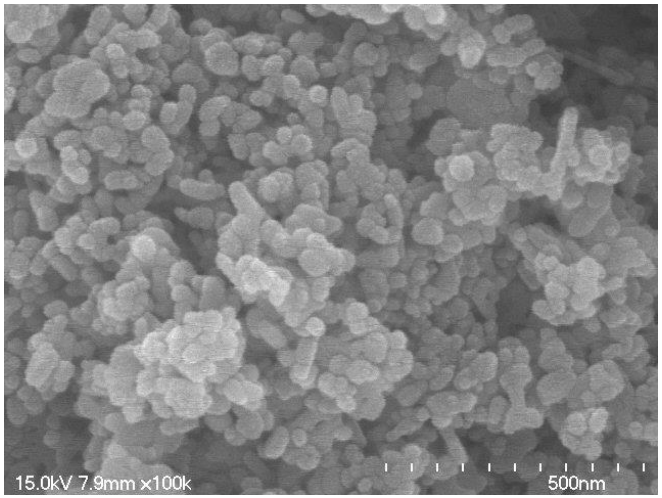
4. TiO_2 Powder

LX-100TV
Micro Bianco
Micro Bianco N(*NLL)
LX Bianco 200
LX Bianco 200N(*NLL)
LX TIS – 35
LX TIS – 35ASM

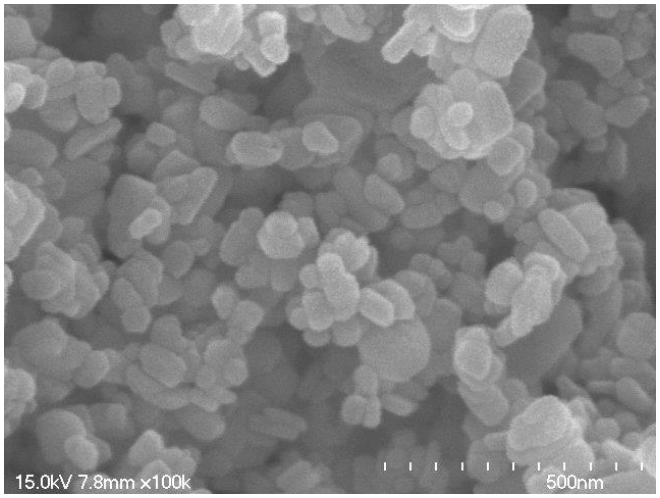
LX-HPA 30, 30N, 150, 150N

Grade	Descriptions	Our proposal	Avg. Particle size(nm)	Oil Absorption (ml/100g)
LX-HPA 30	Zinc oxide 30nm & Triethoxycaprylylsilane	SUN Cream, Tone-Up Cream, Whitening Agent, Etc,.	30~60	10~20
LX-HPA 30N	Zinc oxide 30nm & Silica & Stearic acid			
LX-HPA 150	Zinc oxide 150nm & Triethoxycaprylylsilane		100~200	10~20
LX-HPA 150N	Zinc oxide 150nm & Silica & Stearic acid			

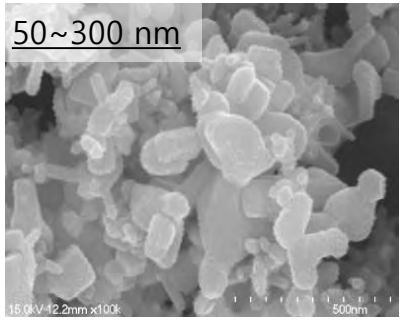
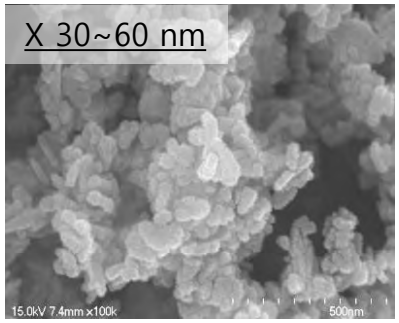
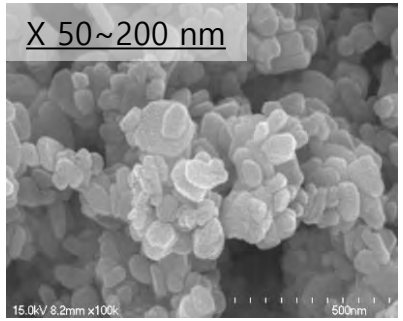
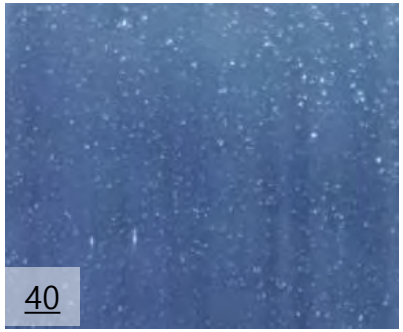
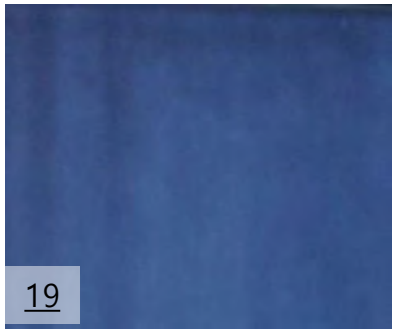
LX-HPA 30



LX-HPA 150



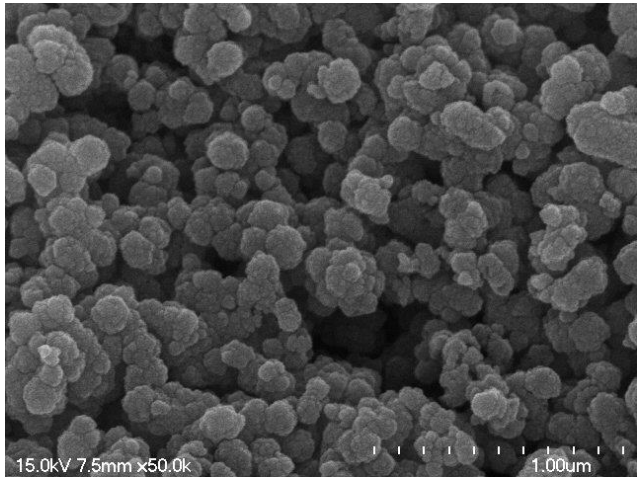
LX-HPA 30, 30N, 150, 150N

	'B' Company	LX-HPA 30	LX-HPA150
SPF/PA	**67.02** / **66.6**	**70.87** / 60.02	68.21 / **67.01**
ZnO content	97.80	96.62	96.61
Loss on Ignition	1.85	3.02	2.56
Hydrophobicity	5	5	5
SEM (X 100 K)			
Transparency (W. I)			

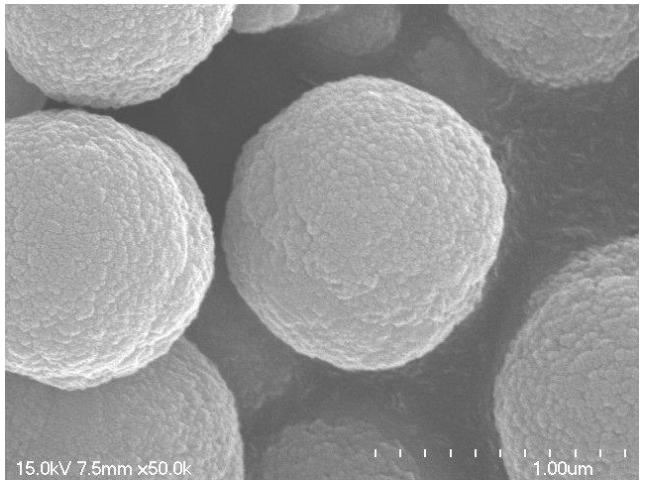
LX-SS 150, 150N, 500, 500N

Grade	Descriptions	Our proposal	Avg. Particle size(nm)	Oil Absorption (ml/100g)
LX-SS 150	Zinc oxide 150nm & Silica & Triethoxycaprylylsilane	SUN Cream, Tone-Up Cream, Whitening Agent, Etc,.	100~200	10~20
LX-SS 150N	Zinc oxide 150nm & Silica & Stearic acid			
LX-SS 500	Zinc oxide 500nm & Silica & Triethoxycaprylylsilane		> 400	10~20
LX-SS 500N	Zinc oxide 500nm & Silica & Stearic acid			

LX-SS 150



LX-SS 500



LX-TiO_2 Powder

LUXON SUN CARE products

Zinc Oxide

1. ZnO Dispersion

LX DZN(DZ) 40 AB
LX DZN(DZ) 705
LX DZN(DZ) 65C
LX DZN(DZ) 65CC
LX DZN(DZ) 65AB
LX DZN(DZ) 65W

2. ZnO Powder

LX-HPA 30
LX-HPA 30N (* 30NL, 30NLL)
LX-HPA 150
LX-HPA 150N (* 150NL, 150NLL)
LX-SS 150
LX-SS150N (* SS150NLL)
LX-SS 500
LX-SS 500N (*SS500NLL)

Titanium Dioxide

3. TiO2 Dispersion

LX DTN 405
LX DTN 555
LX DTN 40 AB
LX DT 605
LX DT 60C
LX DT 60CC
LX DT 60AB
LX DT 55W

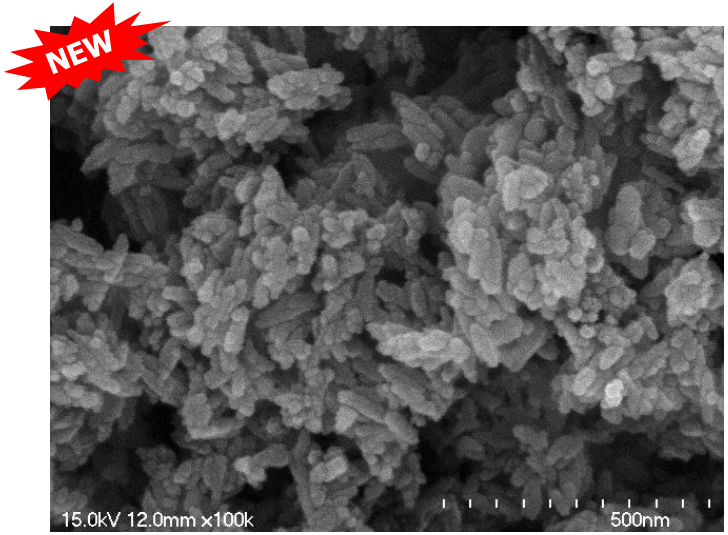
4. TiO_2 Powder

Micro Bianco
LX 95NT
Micro Bianco N(*NLL)
LX Bianco 200
LX Bianco 200N(*NLL)
LX TIS – 35
LX TIS – 35ASM

Micro Bianco

Grade	Descriptions	Our proposal	Avg. Particle size(nm)	Oil Absorption (ml/100g)
Micro Bianco	Titanium Dioxide 30nm & Triethoxycaprylylsilane	Tone-Up Cream, SUN Cream, Whitening Agent, Etc,.	30~60	10~30
LX NT95	Titanium Dioxide 20nm & Stearic Acid	Tone-Up Cream, SUN Cream, Whitening Agent, Etc,.	20	10~30

Micro Bianco



LX NT95

Feature of Micro Bianco

Micro Bianco Feature

EWG Green Level '2'

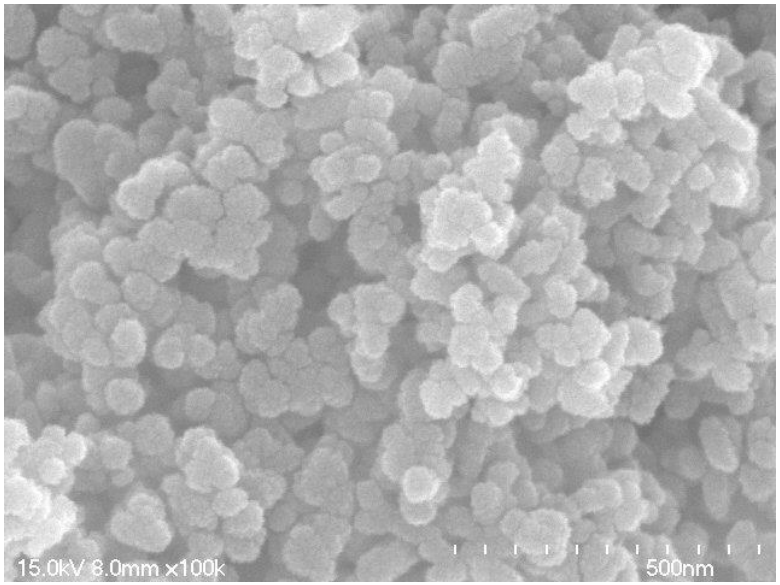
Best UVB PROTECTION

Whitening Effect

Perfect Longlasting

(TiO2 93% + Silica 4% + Aluminum 3%) + AS 5%
Particle Size: 30~60nm

TiO2 : Best UVB PROTECTION



Feature of LX NT95

LX NT95 Feature

EWG Green Level '2'

Best UVB PROTECTION

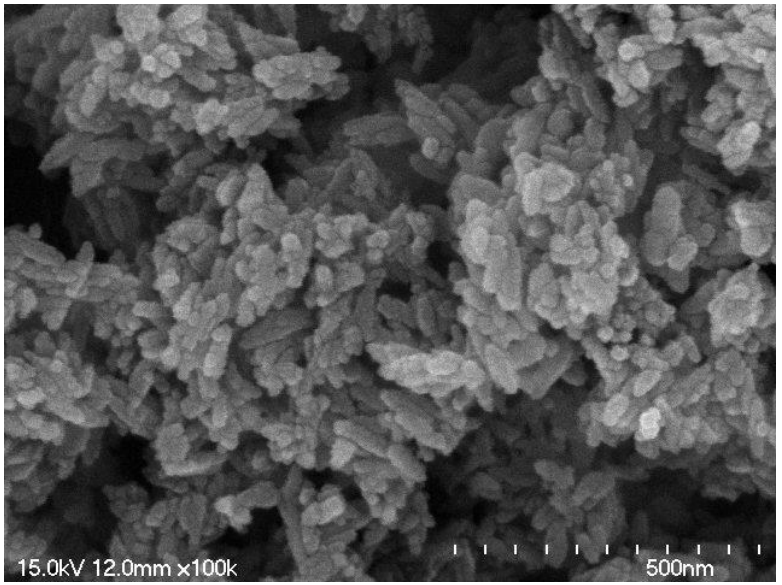
Transparent Effect, Smooth Feeling

Perfect Longlasting

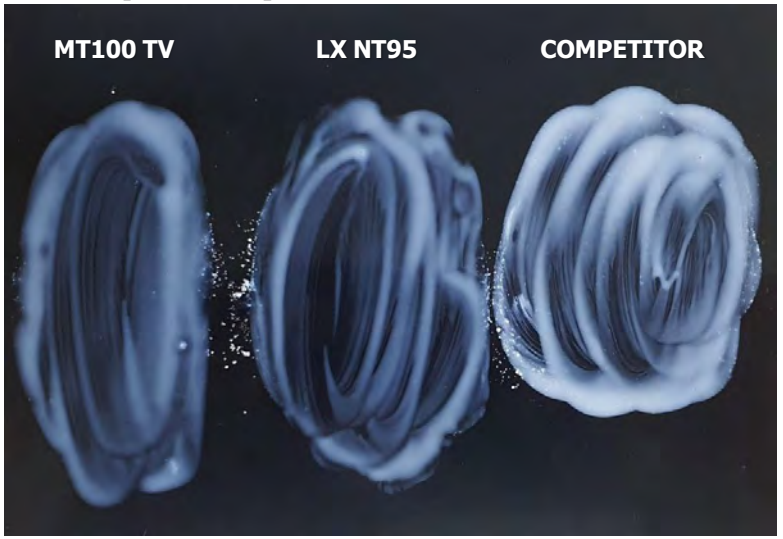
(TiO2 85% + Aluminum Hydroxide 10%) +
Stearic Acid 5%
Particle Size: 20nm

NEW

TiO2 : Best UVB PROTECTION



Transparency Test



Oxygen Sun Cushion (SPF30, PA++)

Feature

Moisturizing, Semimatt feeling

Lab No.: HTT1126SB-LA02

PHASE	Ingredient	INCI	%
A	Hicos IOP	Ethylhexyl palmitate	10.00
	Schercemol™ DIS ester	DIISOPROPYL SEBACATE	0.50
B	MIPEARL BGC	Butylene glycol dicaprylate/dicaprate	4.00
	BENTON 38V CG	Disteardimonium Hectorite	1.00
C	ISOLAN® GI 34	polyglyceryl-4 isostearate	2.00
	Arlacel-83	Sorbitan Sesquioleate	1.00
D	Cetiol sensoft	Propylheptyl Caprylate	16.00
	LX HPA-30	Zinc Oxide/Triethoxycaprylylsilane	16.00
	LX NT 95	Titanium Dioxide/Aluminum Hydroxide/stearic Acid	2.00
	LX SS150	Zinc Oxide	2.00
	LX TIS-35	Sillica/Titanium Dioxide	0.50
	Salacos HS-6C	Polyhydroxystearic Acid	0.50
	Lexgard GMCY	Glyceryl Caprylate	0.30
E	Water	Water	TO.100
	LX MOILUB 1000	Biosaccharide Gum-1	2.00
	LX MOILUB 701A	PEG/PPG-17/6 Copolymer	0.50
	MgSO4	Magnesium Sulfate Heptahydrate	0.80
	Disodium EDTA	Disodium EDTA	0.02
F	Natureclean RP9	Raspberry Ketone/Propanediol	2.50

Standard Operating Procedures

1. Heat phase A to 85℃, then homomix at 4000rpm for 10 minutes.
2. After dispersing phase B at 85° C for 10 minutes, put it into phase A
3. After stirring phase C, add it into phase A.
4. Put phase D phase into phase A
5. After stirring phase E at 85℃, put it into phase A
6. Put F phase into A phase at 40℃

Key Ingredients our products

LX HPA-30
LX NT95
LX SS150
LX TIS-35

Commend
LX MOILUB 1000
MOILUB 701A

Reference : 식물나라/ Oxygen water sun cushin

Our Proposal of Shaking SUN MILK W/S (SPF50, PA++++)

Feature

Light feeling, No cludiness

Lab No.: HTT0716SB-MA01

PHASE	Ingredient	INCI	%
A	KF-96L-1.5cs	Dimethicone	8.00
	HRC-C6	Cyclohexasiloxane	5.00
	Cetiol CC	Dicaprylyl Carbonate	5.00
	SF1000N 6sc	Dimethicone	4.00
	Dowsil F2-3196	Caprylyl Methicone	3.00
	Microcare e9016	Cetyl PEG/PPG-10/1 Dimethicone	2.00
	LX GEL A 20	Dimethicone, Dimethicone/Dimethicone Crosspolymer	2.00
B	Uvinul MC80(BASF)	Ethylhexyl Methoxycinnamate	6.00
	Cetiol® AB	C12-15 ALKYL BENZOATE	4.00
	PALSOL 340(DSM)	Octocrylene	4.00
	Uvinul A Plus Granular(BASF)	Diethylamino Hydroxybenzoyl Hexyl Benzoate	4.00
C	Moicos N115	Methyl hydrogenated rosinate	1.00
D	Bentone gel GTCC-V	Caprylic/Capric Triglyceriden, Stearalkonium Hectorite, Propylene Carbonate	1.50
E	LX HPA-30HD	Zinc Oxide, Hydrogen Dimathicone	10.00
	SPHESTA ECO H10	Silica & Lauryl Alcohol& Cetyl Alcohol	5.00
	LX TALC 46R DSM	Talc, Dimethicone	4.00
	LX NT 95	Titanium Dioxide, Aluminum Hydroxide, Stearic Acid	2.00
	LX SS 150	Zinc Oxide	3.00
	LX PMSQ P50	Polymethylsilsesquioxane	2.00
F	Water	Water	TO 100
	MOILUB 1000	Biosaccharide Gum-1	5.00
	MOILUB 701A	PEG/PPG-17/6 Copolymer	2.00
	Magnesium Surfate	Magnesium Surfate	0.40
	Natureclean RP9	Raspberry Ketone/Propanediol	2.50
	Disodium EDTA	Disodium EDTA	0.02

Standard Operating Procedures

1. Dispersed in B after heating A 80℃
2. Warmed up to 80 ℃ in C Dispersion preparation separately for D
3. E input after cooling to 50 ℃
4. Finish after 35 ℃ cooling

Key Ingredients our products

LX HPA-30HD
SPHESTA ECO H10
LX TALC 46R DSM
LX NT 95
LX SS 150
LX PMSQ P50

Commend
LX MOILUB 1000
MOILUB 701A
LX GEL A 20
Moicos N115

Reference : Anessa Perfect UV sunscreen aqua booster

Safty Sun Cream (SPF30 PA++)

Feature

Transparent, Freshness Sun Cream

Lab No: HTT0716SB-CA01

PHASE	Ingredient	INCI	%
A	SF0015Z CM56	Cyclopentasiloxane, Cyclohexasiloxane	30.00
	LX GEL A 20	Dimethicone/Dimethicone, Dimethicone Crosspolymer	3.00
B	Cetiol CC	Dicaprylyl Carbonate	5.00
	BENTON 38V CG	Disteardimonium Hectorite	1.00
C	Microcare e9016	Cetyl PEG/PPG-10/1 Dimethicone	3.00
	RHEODOL AO-15	Sorbitan Sesquioleate	1.00
D	LX NT 95	Titanium Dioxide/Aluminum Hydroxide/Stearic Acid	6.00
	LX HPA 30HD	Zinc Oxide/Hydrogen Dimathicone	10.00
E	Water	Water	TO.100
	LX MOILUB 1000	Biosaccharide Gum-1	2.00
	MOILUB 701A	PEG/PPG-17/6 Copolymer	2.00
	MgSO4	Magnesium Sulfate Heptahydrate	1.20
	Disodium EDTA	Disodium EDTA	0.02
F	PRESERVATIVES	Phenoxyethanol / Ethylhexylglycerin / 1,2-Hexanediol	1.35

Standard Operating Procedures

1. Heat phase A to 85℃, then homomix at 4000rpm for 10 minutes.
2. After dispersing phase B at 85° C for 10 minutes, put it into phase A
3. After stirring phase C, add it into phase A.
4. Put phase D phase into phase A
5. After stirring phase E at 85℃, put it into phase A
6. Put F phase into A phase at 40℃

Key Ingredients our products

LX NT 95
LX HPA 30HD

Commend
LX MOILUB 1000
LX MOILUB 701A
LX GEL A 20

Reference : COSON / Safty 365 Sun Cream

Base-Skip Tone-up Sun(SPF50 PA++++)

Feature

Base-Skip tone-up Sun Cream

UV protection excellent

Lab No.: HTU0805SB-CA14

PHASE	Ingredient	INCI	%
A	LX DZTN 605H	Please refer to LUXON MSDS	50.00
	DC 245	Cyclopentasiloxane	9.00
	Cetiol® Sensoft	Propylheptyl Caprylate	2.50
	Dowsil F2-3196	Caprylyl Methicone	2.50
	Bentone 38 vc g	Disteardimonium Hectorite	0.80
	Moicos N115	Methyl hydrogenated rosinate	0.50
	LX GEL A 20	Dimethicone, Dimethicone/Dimethicone Crosspolymer	0.30
B	DACHEA EZH IOY 50	Please refer to LUXON MSDS	q.a
	DACHEA EZH IOR 50	Please refer to LUXON MSDS	q.a
C	D.I.WATER	Water	TO.100
	LX MOILUB 1000	Biosaccharide Gum-1	1.00
	LX MOILUB 701A	PEG/PPG-17/6 Copolymer	2.00
	Sodium chloride	Sodium chloride	1.20
	Hyaluronate	sodium hyaluronate	q.a
	Allantoin	Allantoin	q.a
	Disodium EDTA	Disodium EDTA	q.a
D	Natureclean RP9	Raspberry Ketone/Propanediol	2.50

Standard Operating Procedures

1. Heat phase A to 80°C.
2. Heat phase B to 80°C., then Homomix at 3000rpm for 5minutes. And add to phase A.
3. Add phase C to phase A+B
4. After Cooling to 60 °C in D phase, put into A phase; Homomix at 3000rpm for 15 minutes.
5. Cooling & Defoaming.

Key Ingredients our products

LX DZTN 605H

Commend

LX MOILUB 1000

LX MOILUB 701A

LX GEL A 20

Moicos N115

Reference :

Kolmar / Porcelain Base-skip Tone Up Beige

Thank you

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