



Cosmetic

Make-up & Powder
Two-way Powder
Foundation
Skin care

Sunscreen
Eye Brightener, Lipstick
Pressed Brush Powder
Nail Polish

Characteristic of Diasphere® for Cosmetic Filler

Functions

- Touch modifying agent
- Soft feel effect
- Gloss control
- Concealing effect to hide defects

Applications

- Make up cosmetic
- Skin care cosmetic
- Personal care cosmetic
- Functional cosmetic

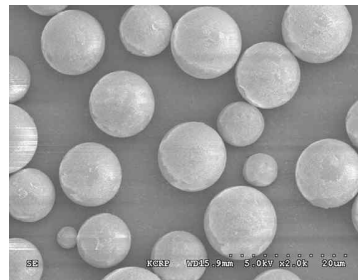
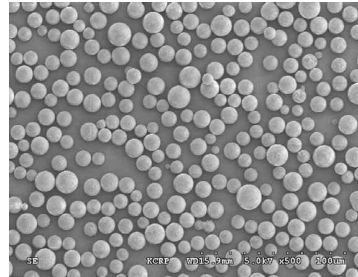
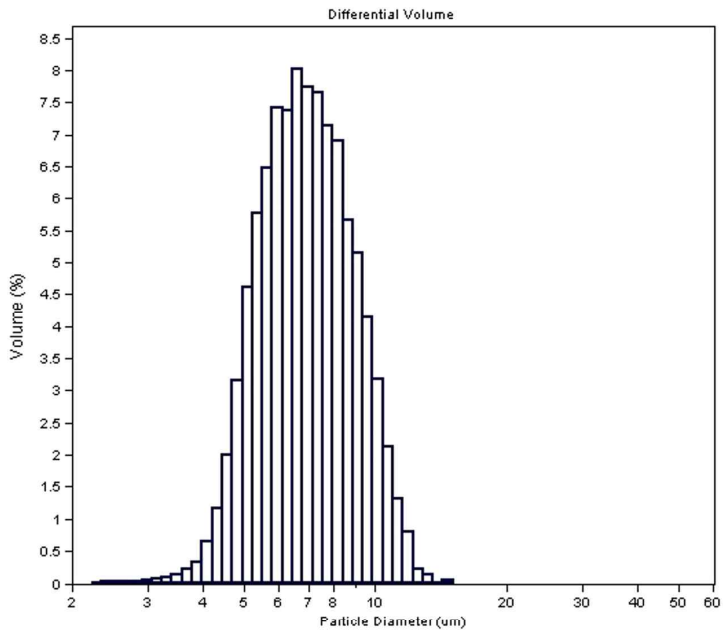
Grades

Description	INCI	Grade	ParticleSize		Remark
			Avg.(μ m)	C.V.(%)	
PMMA	Methyl methacrylate cross polymer	MH-7C	7	<35	Normalbead
		MH-7P	7		Porous bead
		MH-7P++	7		Higher porous bead
Silicone	Polymethylsilses quioxane	KS-200C	2	<20	Silicone bead
		KS-500	5		
		KS-1000	10		
Silica	Silica	KSS-800TE	8	<60	Triethoxycaprylsilane coating Silica
		KSS-1000	10		Normal Silica

• C.V.(Coefficient of Variance) : Standard deviation/Avg. size



Features of MH-7C(Polymethylmethacrylate)



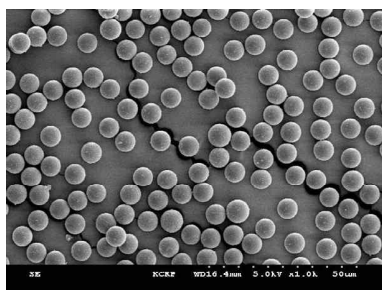
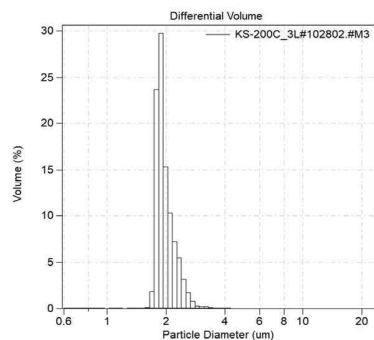
- Average particle size : 7.12 μ m
- C.V. : 24.7%

Features of MH-7P(Porous Polymethylmethacrylate)

Name	MH-7P	MH-7P +	MH-7P ++
Particle distribution graph			
Particle size(μm)	7.034	6.726	7.000
C.V(%)	16.2	24.4	26.6
Oil absorption(cc/g)	0.65	1.15	1.80
SEM Image (10K)			

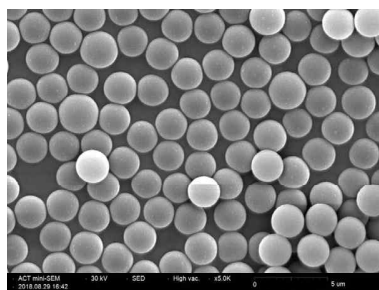
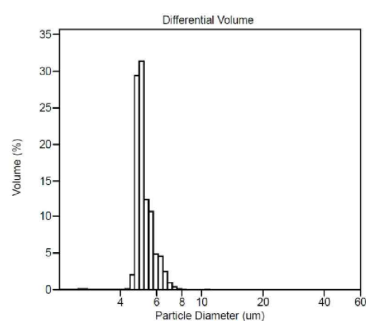
Features of KS-Series(Silicone)

KS-200C



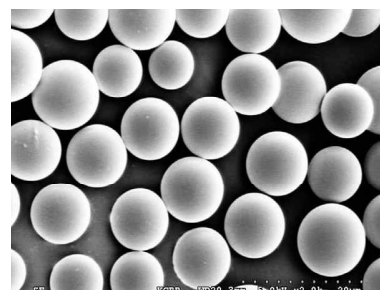
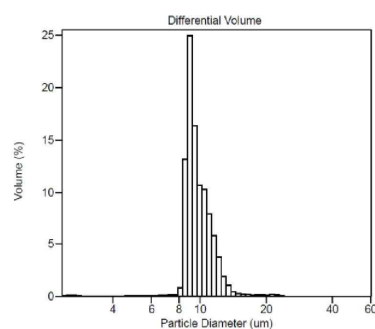
• Avg. size : 2 μ m

KS-500



• Avg. size : 5 μ m

KS-1000



• Avg. size : 9 μ m

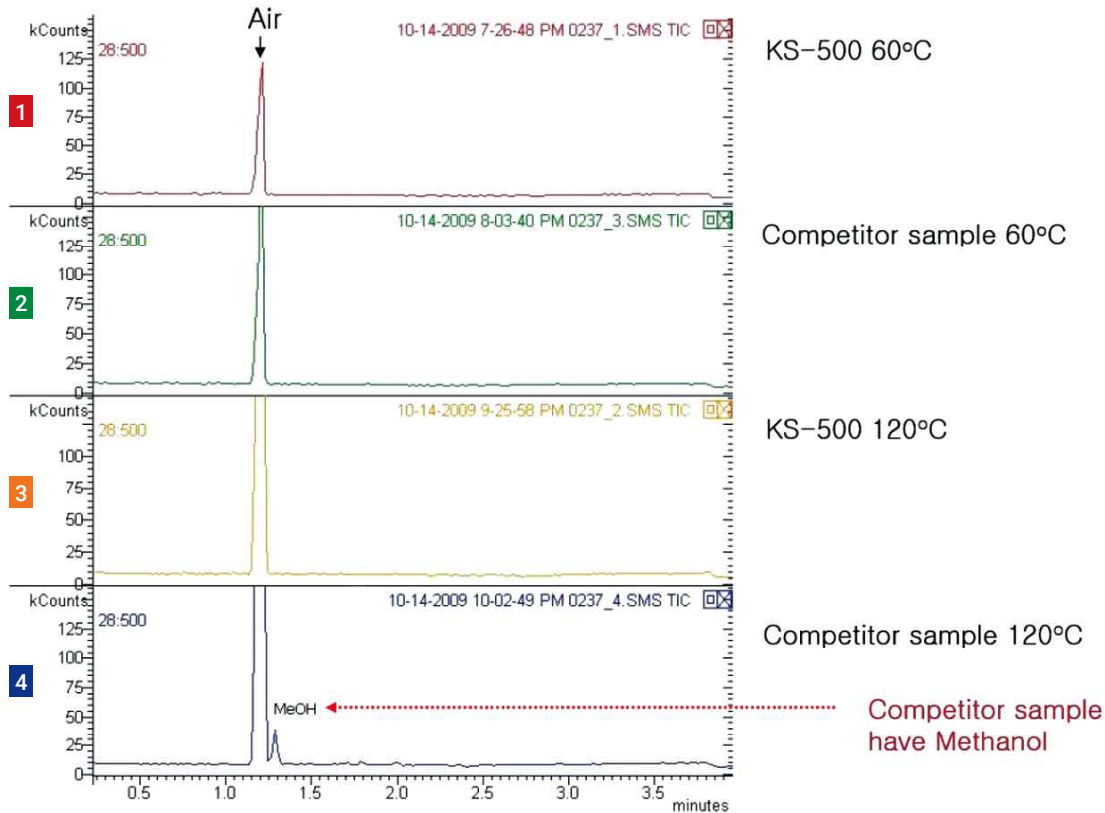
	pH	Moisture Contents(%)	Oil absorption		
			Liquid Paraffine	Propylen Glycol	Butylene Glycol
Competit or	6.7	0.56/0.58/0.61	0.56g	0.56g	0.72g
KS-500	6.8	0.45/0.52/0.62	0.58g	0.58g	0.69g

• Moisture Contents : METTLER TOLEDO 120°C 30min

• Oil Absorption : Wt. of Sample in grams

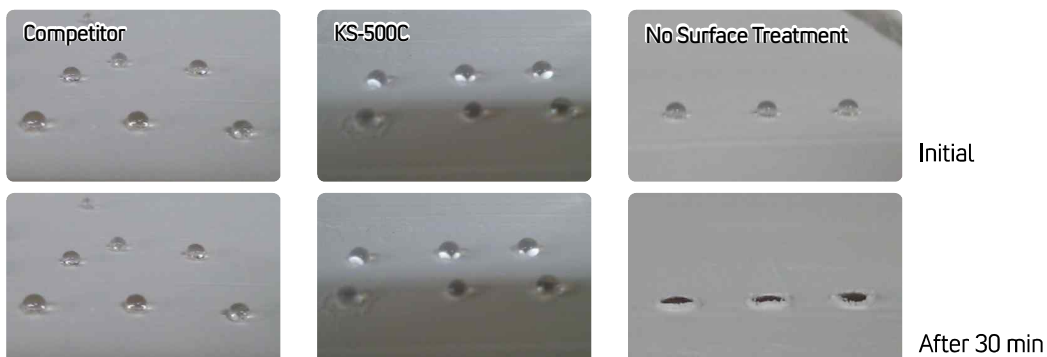
Features of KS-Series(Silicone)

- No Materials detected 60°C, 120°C in KS-500
- Competitor sample contain MeOH and it comes out 120°C

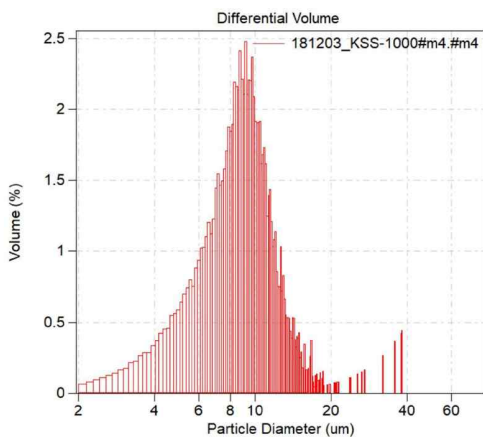
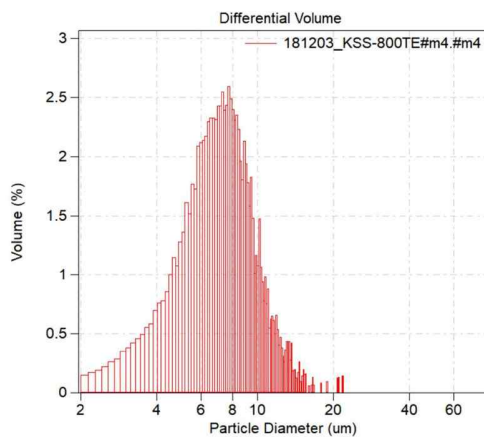
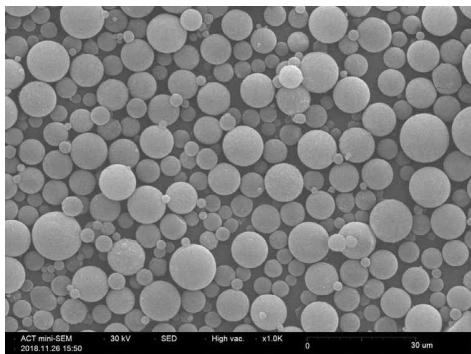
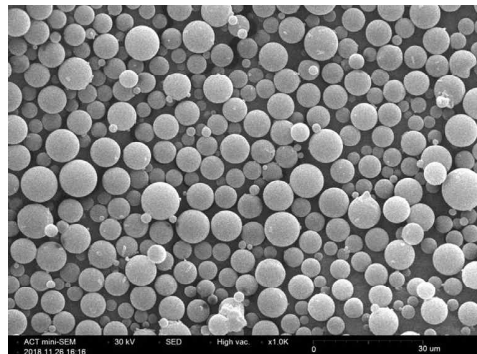


- We spread the powder in a SUS pan by Roller to form a pressed cake.
- Then, a drop of Butylene glycol was applied through a syringe.

	Contact Angle				Average
	1	2	3	4	
Competitor	102.5	98.6	104.8	100.7	101.65
KS-500C	113.9	107.4	103.2	110.3	108.7

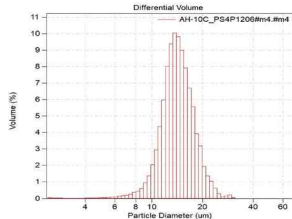
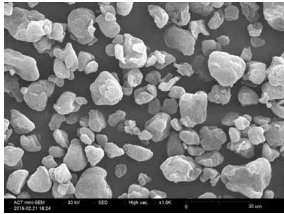


Features of Silica

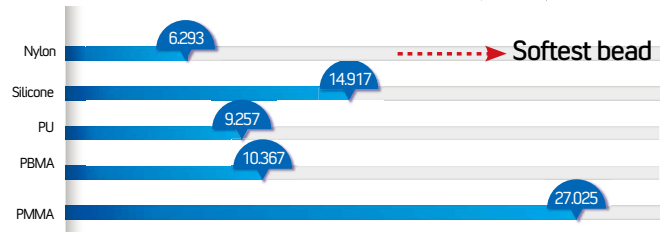
Name	KSS-1000	KSS-800TE
Particle distribution graph	 Differential Volume 181203_KSS-1000#m4.#m4 Volume (%) Particle Diameter (μm)	 Differential Volume 181203_KSS-800TE#m4.#m4 Volume (%) Particle Diameter (μm)
Particle size(μm)	10.0	8.2
Surface Treatment	-	Triethoxycaprylsilane
Oil absorption(cc/g)	1.44	1.21
SEM Image (1.0K)	 ACT mini-SEM 2018.11.26 15:50 30 kV SED High vac. x1.0K 0 30 μm	 ACT mini-SEM 2018.11.26 16:16 30 kV SED High vac. x1.0K 0 30 μm

Features of Nylon 12

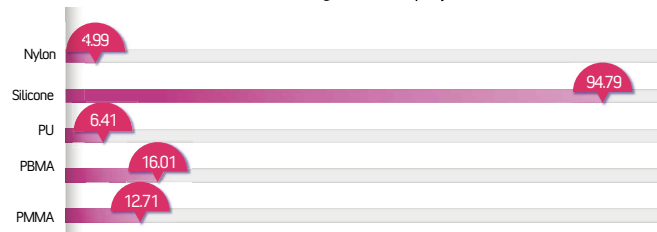
- Nylon, AH-10C, has relatively narrow size distribution and softest features among several types of organic particles.

Name	AH-10C
Particle distribution graph	
Particle size(μm)	10.0
C.V.(%)	22.0
Oil absorption(cc/g)	1.0
SEM Image (1.0K)	

10% Compressive Strength(MPa)



Recovery Rate(%)



Test Method

- K-Value(10% Compressive Strength): Test Force-19.60mN, Loading Speed-0.892mN/sec
- Compression Recovery Rate : Maximum Force-9.810mN, Minimum Force-0.49mN Loading Speed-0.892mN/sec

Spreadability Test Results

