

The logo for ShinEtsu, featuring the word "Shin" in blue and "Etsu" in green, with a stylized white and blue graphic element between them.




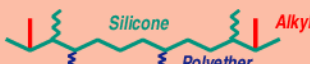

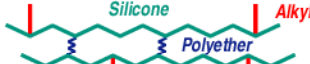
ShinEtsu

A vertical splash of clear water against a light blue background, with ripples on the surface below.

KF6038

Breakthrough Emulsion Technology

Shin-Etsu's Emulsifier Product Line

Type	Product Name	Structure
Linear	KF-6017	
	Alkyl Modified KF-6026	
Branched Silicone	KF-6028	
	Alkyl Modified KF-6038	
Cross-Polymer	KSG-210	
	Alkyl Modified KSG-300 Series	

Solubility Profile

	KF-6017	KF-6028	KF-6026	KF-6038	Competitive Material
Cyclopentasiloxane	S	S	D	S	C
Dimethicone 6cs	S	S	D	S	D
Diphenyl/Phenyl Trimethicone	S	S	S	S	S
Mineral Oil	D	D	S	S	S
Isotridecyl Isononanoate	S	S	S	S	S
Triethylhexanoin	S	S	S	S	S
1,3-Butylene Glycol	D	D	D	D	D
Isopropyl Alcohol	S	S	S	S	D
Water	I	I	I	I	I

20% SAA Solution S:Soluble C:Cloudy D:Dispersible I: Insoluble

KF-6038 has broad solubility with both silicone and organic materials

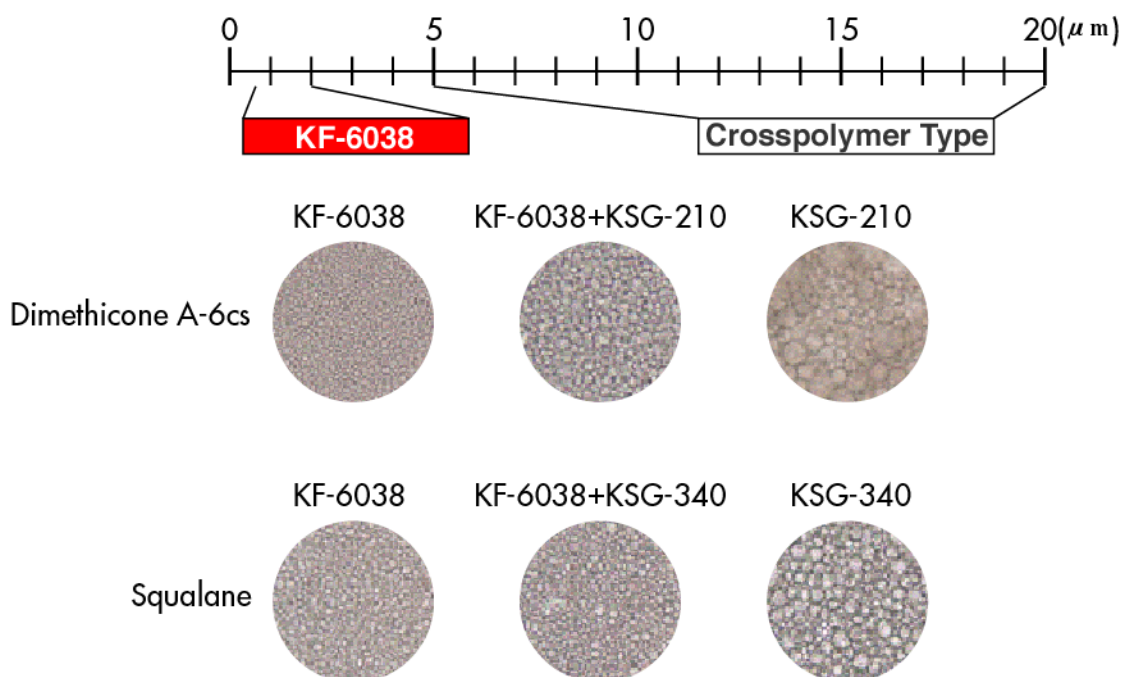
Emulsification Capability

Formula	No.	Sample
	1	Emulsifier
	2	Dimethicone ócs
	3	Mineral Oil
	4	Dipropylene Glycol
	5	Water

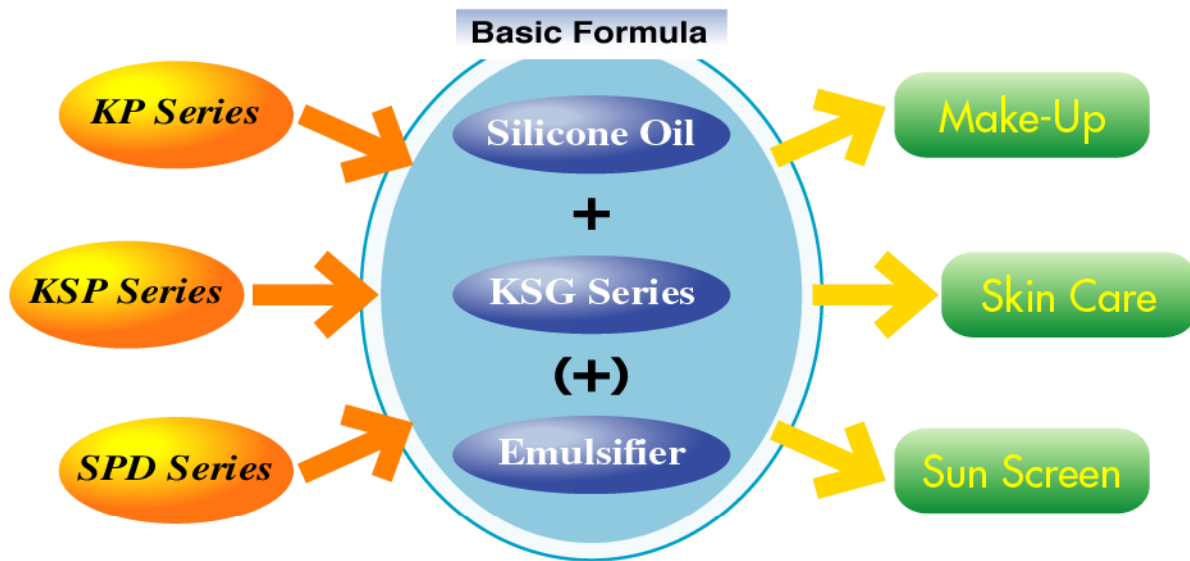
	100%	50:50	100%
Emulsifier	Dimethicone		Mineral Oil
KF-6017			
KF-6028			
KF-6038			
Competitive Material			

KF-6038 can emulsify a broad range of oil- 100% silicone to 100% mineral oil

Comparison of Particle Size



KSG Formulation Design - A System Approach -



Sun Screen

	#03-105	#03-106
KSG-210	3.0	2.0
KSG-15	6.0	3.0
KF-6038	1.0	1.0
Dimethicone A-6cs	-	2.0
Cyclopentasiloxane	-	3.5
Neopentyl Glycol Dioctanoate	9.0	4.5
Octyl Methoxycinnamate	5.0	5.0
KP-545	4.0	-
KSP-105	-	1.0
SPD-Z5	-	10.0
1,3-Butylene Glycol	7.0	7.0
Sodium Citrate	0.2	0.2
Sodium Chloride	0.5	0.5
Water	64.3	60.3

W/O CREAM Foundation

	#04-131B
KSG-310	2.0
KSG-41	2.0
KF-6038	1.0
Mineral Oil	2.0
Triethylhexanoïn	5.0
Isotridecyl Isononanoate	9.0
Lecithin	0.2
Polysorbate 80	0.5
1,3-Butylene Glycol	5.0
KSP-100	2.0
Pigments (Oil Coated)	10.0
Sodium Citrate	0.2
Sodium Chloride	0.5
Water	60.6



note