

Dimethicone copolyols



Dimethicone copolyols, also known as silicone emulsifiers, are synthesized to contain both silicone and water-soluble group within the same molecule. These molecules can assist in the preparation of water-in-silicone, silicone-in-water or water-in-oil emulsions. The result is a series of ingredients with a huge capacity to create a large possibility of textures, sensory experiences and unique performances.

BRB provides a range of silicone polyether which can help formulators to create skin/sun care, hair care and color cosmetic products that deliver superior aesthetics, cost-effective and sensory benefits into stable emulsions.

	BRB 523	BRB 526	BRB 6341	BRB 6373	BRB 423
INCI Name	PEG/PPG-18/18 Dimethicone	PEG-12 Dimethicone	PEG-10 Dimethicone	Cyclopentasiloxane (and) PEG/PPG-18/18 Dimethicone	Cetyl PEG/PPG-10/1 Dimethicone
Emulsion	Co-emulsifier W/Si	Emulsifier Si/W	Emulsifier W/Si, W/Si+O Co-emulsifier W/Si+O	Emulsifier W/Si	Emulsifier W/Si, W/Si+O Co-emulsifier W/Si+O
Texture	Light emulsions	White emulsions, Gel-cream translucid emulsions	Fluid Emulsions	Versatility of textures: white & transparent emulsions, lotions, creamy emulsions, gel-creams	Versatility of textures: white & transparent emulsions, lotions, creamy emulsions, gel-creams. Richer emulsions
Viscosity (25°C)	2000 cSt	300 cSt	600 cSt	30 cSt	1250 cSt
HLB	8	13	4,5	2	5
Carrier	No	No	No	Yes, cyclopentasiloxane (90%)	No
Compatibility	Water, hydroalcoholic systems	Water, hydroalcoholic systems	Isododecane, ethanol, esters, UV filters, silicones.	Isododecane, ethanol, esters, silicones.	Isododecane, ethanol, vegetal oils, UV filters, butters, esters, silicones.
Use level	1 - 3 %	4%	2 - 8 %	7 - 10 %	1,5 - 3 %
Processing recommendations	* Combine with water phase	* Combine with water phase	* Combine with oil/silicone phase	* Combine with silicone phase	* Combine with oil/silicone phase
Cold process	No	Yes	Yes	Yes	Yes
Oil phase to emulsify	-	Up to 20% Waxes Mineral oils Vegetal oils	Up to 30%	Up to 30% Waxes Mineral oils Vegetal oils	Up to 30%
Incompatibility					
Skin Care	x	x	x	x	x
Sun Care			x	x	x
Hair Care	x	x		x	x
Make-up			x	x	x