

Personal Care Product Range

Volatile Fluids
Dimethicones
Phenyl Modified Fluids
Polymer Fluid Blends
Dimethicone Copolyols
Silicone Crosspolymers
Silicone Emulsions
Silicone Resins



Volatile Fluids

Volatile on skin

Upon evaporation, impart soft, dry velvety feel, no residue or build up

• Make up: Volatile carrier in pigment dispersions

Aerosol: Replacement for organic solvent

Reduce Stickiness

Non clogging of nozzles

No cooling effect on evaporation

• Stick: Non tacky, apply without drag

• Sunscreen: Solvent for actives, and dispersing aid for micronized oxides

Emulsions: Soft, smooth feel and pleasant application with a unique skin

feel



Volatile Fluids Cyclics

BRB CM 40 - Cyclotetrasiloxane

• BRB CM 50 - Cyclopentasiloxane

BRB CM 50 High Purity Cyclopentasiloxane

• BRB CM 60 - Cyclohexasiloxane

BRB CM 45 - Cyclotetrasiloxane (and) Cyclopentasiloxane

BRB CM 45-S - Cyclotetrasiloxane (and) Cyclopentasiloxane

BRB CM 56-S - Cyclopentasiloxane (and) Cyclohexasiloxane



Volatile Fluids Linears

• DM 0.65 - Disiloxane

• DM 1 - Trisiloxane

• DM 1.5 - Dimethicone

• BRB 1417 - Dimethicone (and) trisiloxane

DM 2 - Dimethicone

• DM 55 - Dimethicone (alternative to Cyclopentasiloxane)

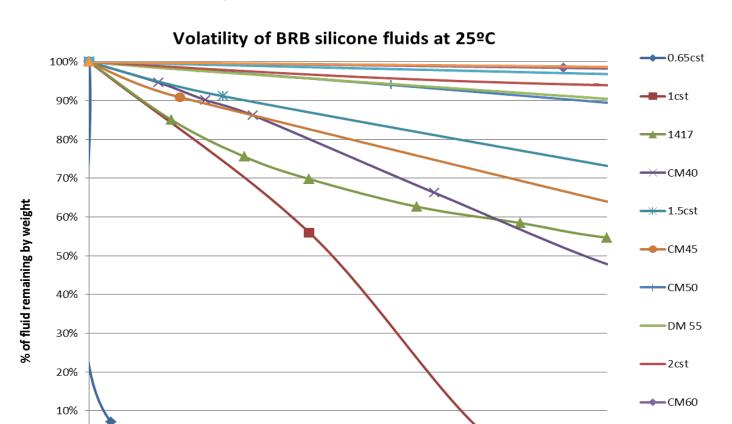
DM 66 - Dimethicone (alternative to Cyclopentasiloxane)
 (and) Cyclohexasiloxane)



CM 56-S

→ DM 66

Volatile Fluids Evaporation Characteristics



0% +

0.2

0.4

0.6

0.8

1

Time in hours

1.2

1.4

1.6

1.8



Dimethicones

BRB DM Fluid - Dimethicone 5 to 100.000 cSt

- Outstanding emolliency and soft feel
- Non Volatile
- Excellent spreadability
- Low viscosity dimethicones (5 20 cSt): miscible in organic ingredients
 Skin Care, Antiperspirant & Deodorants, Sun Care, Hair Care and Color Cosmetics
- Middle viscosity dimethicones (50 1.000 cSt): as oil additive Skin Care, Antiperspirant & Deodorants, Sun Care, Hair Care and Color Cosmetics
- High viscosity dimethicones (60.000 100.000 cSt):
 Exceptional conditioning agents in Hair Care products



Gum blends

BRB 1735 Cyclopentasiloxane (and) Cyclotetrasiloxane (and) Dimethiconol
 BRB 1744, 1755 Cyclotetrasiloxane (and) Cyclopentasiloxane (and) Dimethiconol
 BRB 1834, 1934 Cyclopentasiloxane (and) Dimethiconol
 BRB 1844 Cyclopentasiloxane (and) Dimethicone

Dimethicone (and) Dimethiconol

Custom made on request

BRB 1736, 1740,

BRB 1860

Applications Body & Skin Care, Antiperspirant & Deodorants,
 Sunscreen Products, Color Cosmetics and Hair Care



Gum Blends

- Impart emollience to skin, providing lubricious and silky feel
- Give spreadability to any kind of formula
- Provide a breathable non-comedogenic protection barrier
- Improve substantivity on surface, helping to fix other actives
- Long lasting effect
- Water resistance supply on skin and hair, with non-occlusive film
- Yield shine and high conditioning effect on hair





Phenyl Modified Fluid

• BRB PTM 20 - Phenyl Trimethicone

- High refractive Index which imparts gloss
- Good solubility or compatibility with many organic ingredients
- Excellent emolliency and reduced tackiness
- Widely used in Color Cosmetics, Hair Care, Skin Care and Sunscreens





Dimethicone Copolyols

- BRB 523 PEG/PPG-18/18 Dimethicone
- BRB 526 PEG-12 Dimethicone
- BRB 6373 Cyclopentasiloxane (and) PEG/PPG-18/18 Dimethicone
- BRB 6341 PEG-10 Dimethicone
- BRB 423 Cetyl PEG/PPG-10/1 Dimethicone
- Acts as wetting agent, emulsifier
- Compatible with a wide range of cosmetic ingredients
- Hair Care: Conditioning agent and superior non-oily feel
- Skin Care & Color Cosmetics : Create non-comedogenic light feel emulsions with elegant sensory



BRB 523

BRB 526

BRB 6341

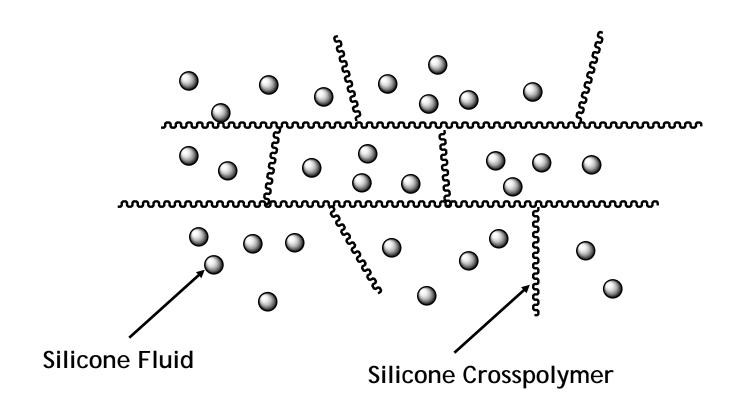
BRB 6373

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
Compatibility	Water, hydroalcoholic systems	Water, hydroalcoholic systems	Isododecane, ethanol, esters, UV filters, silicones.	Isododecane, ethanol, esters, silicones.	Isododecane, ethanol, vegetaloils, UV filters, butters, esters, silicones.
Where to add the emulsifier ?	Water phase	Water phase	Oil/silicone phase	Silicone phase	Oil/silicone phase
Cold process	No	Yes	Yes	Yes	Yes
Oil phase to emulsify	-	Up to 20%	Up to 30%	Up to 30%	Up to 30%
Use level	1 - 3 %	4%	2 - 8 %	7 - 10 %	1,5 - 3 %
Skin Care	X	X	X	X	X
Sun Care			Х	X	X
Hair Care	X	X		Х	X
Make-up			X	X	X



Silicone Crosspolymer





Silicone Crosspolymer

Clear to slightly translucent cross-linked silicone elastomer gel

These products are specifically designed to provide luxurious feel as well as maintaining the back up of your formulation

- BRB SG 106, 116, 117
- Cyclopentasiloxane (and) Dimethicone/Vinyl Dimethicone Crosspolymer
- BRB SG 506, 516, 517
 - Dimethicone (and) Dimethicone/Vinyl Dimethicone Crosspolymer
- Custom made





Silicone Crosspolymer

- Impart superior sensory feel: smoothness, light, silky, non-greasy and powdery touch
- Cold Processable and Easy to formulate
- Reduce tackiness of formulation
- Acts as thickening agent, improving formula stability
- Provide long-lasting effect
- Applications: Skin Care, Hair Care, Antiperspirant & Deodorants, Color Cosmetics, Sunscreens and styling products





Silicone Crosspolymer overview

Parameter	Unit	BRB SG 106	BRB SG 116	BRB SG 117
INCI		Cyclopentasiloxane (and) Dimethicone/Vinyl Dimethicone Crosspolymer		
Appearance		Colourless translucent gel	Colourless translucent paste	Colourless translucent gel
Odour		Odourless	Odourless	Odourless
Refractive index		1.397	1.397	1.397
Viscosity (25°C, 10 s-1)	mPa.s	30.000	55.000	10.000
Crosspolymer content	%	11	12	6

Parameter	Unit	BRB SG 506	BRB SG 516	BRB SG 517
INCI		Dimethicone (and) Dimethicone/Vinyl Dimethicone Crosspolymer		yl Dimethicone
Appearance		Colourless translucent gel	Colourless translucent paste	Colourless translucent gel
Odour		Odourless	Odourless	Odourless
Refractive index		1.400	1.397	1.397
Viscosity (25°C, 10 s-1)	mPa.s	30.000	30.000	10.000
Crosspolymer content	%	14	11	10



- BRB 1018 Dimethiconol (and) TEA-dodecylbenzenesulfonate
- BRB 1288 Amodimethicone (and) Trideceth-12 (and) Cetrimonium Chloride
- BRB 9719 Dimethicone (and) Laureth-4 (and) Laureth-23 (and) Salicylic acid
- BRB 5446 Silicone Quaternium-17 (and) Trideceth-7 (and) Trideceth-5
- BRB 1298 Amodimethicone (and) Trideceth-7 (and) Trideceth-5 (and) Propylene Glycol (and) Trideceth-12
- BRB 5834 Phenyl Trimethicone (and) Laureth-4 (and) Silicone Quaternium-17 (and) Laureth-23
- Hair Care and Skin Care applications
- Emulsions of silicone for easy formulation into hair treatment products
- Concentration easily adjusted by dilution with water
- Protective coating upon drying
- Imparts soft and silky feel
- Improves wet and dry combing



- BRB 1018: High viscosity dimethiconol emulsion
 INCI: Dimethiconol (and) TEA-dodecylbenzenesulfonate
- 60% Dimethiconol Gum anionic macro-emulsion made by Emulsionpolymerisation
- Improve wet and dry combing, imparting smooth soft feel and shine
- Deposit on hair in combination with cationic polymers (e.g. hydroxypropyltrimoniumchloride)
- Preservative: Phenoxyethanol





- BRB 1288: Cationic Aminofunctional emulsion
 INCI: Amodimethicone (and) Trideceth-12 (and) Cetrimonium Chloride
- Hair care emulsion for Conditioners and Hair Treatment formulations
- A very good conditioning additive for Leave-on and styling products
- Benefits: easier dry & wet combing, less flyaway, less static build-up,
 hair volume
- 35% silicone active macroemulsion
- Low D4 content (~0.1%)
- Phenoxyethanol preserved
- BRB 1292 is a 50% silicone active version.





BRB 9719: Dimethicone emulsion

INCI: Dimethicone (and) Laureth-4 (and) Laureth-23 (and) Salicylic acid

- Non-ionic emulsion for Skin Care and Hair Care applications
- 55% Silicone active
- Hair Care: highly conditioning effect without build up
- Skin & Body Care: non-tacky, luxuriant soft silky feeling
- Easy to formulate
- Preservative: Salicylic acid





- BRB 5446: Silicone Quaternium microemulsion
 - INCI: Silicone Quaternium-17 (and) Trideceth-7 (and) Trideceth-5
- BRB 5446 is a clear, non-ionic microemulsion of a quaternary ammonium functional silicone.
- It represents a step forward in hair conditioning effect, suitable for use in shampoo, conditioner, hair-balm and styling formulations.
- Ideal for use in clear, leave-in and rinse-out products, for all hair types
- Enhanced color and heat protection, particularly on damaged hair fibers.
- Preservative: Phenoxyethanol





- BRB 1298: Non-ionic Aminofunctional microemulsion
 INCI: Amodimethicone (and) Trideceth-7 (and) Trideceth-5 (and)
 Propylene Glycol (and) Trideceth-12
- Hair care emulsion for Conditioners and Hair Treatment formulations
- Ideal for clear formulations
- Benefits: easier dry & wet combing, less flyaway
- 30% solid / 20% Silicone
- Protected with a preservative-free blend of Caprylyl glycol and Phenethyl alcohol that offers synergetic broad spectrum antimicrobial protection.





- BRB 5834: Silicone Quaternium microemulsion
 INCI: Phenyl Trimethicone (and) Laureth-4 (and) Silicone Quaternium-17 (and) Laureth-23
- BRB 5834 is a clear, non-ionic microemulsion combining the effect of the well-established gloss-boosting Phenyl Trimethicone with the excellent conditioning properties of a quaternary ammonium silicone in a clear micro-emulsion.
- Ideal for use in clear, leave-in and rinse-out products, for all hair types
- Silicone content: 17%
- Preservative free





	B	R	B
--	---	---	---

BRB 1018

BRB 1288 / 1292

BRB 1298

BRB 5446

BRB 9719

BRB 5834

INCI Name

Emulsifier Type Silicone content Viscosity (25°C)

Preservative

Primary Applications
Shampoo
Conditioner Rinse off
Conditioner Leave In
Styling

Use level

Conditioning level Formulation benefits

Performance benefits

DKD 1010	DRD 1200 / 1292	DKD 1270	DRD 3440	DKD 7/17	DKD 3034
Macro-emulsion of an Ultra high viscosity polymer	Macro-emulsion of an amine-functional silicone polymer	Micro-emulsion of an aminefunctional silicone polymer	Micro-emulsion of a quaternary ammonium functional silicone	Macro-emulsion of a high viscosity polymer	Microemulsion of Phenyl Trimethicone and a quaternary ammonium functional silicone
Dimethiconol (and) TEAdodecylbenzenesulfonat e	Amodimethicone (and) Trideceth-12 (and) Cetrimonium Chloride	Amodimethicone (and) Trideceth-7 (and) Trideceth-5 (and) Propylene Glycol (and) Trideceth-12	Silicone Quaternium-17 (and) Trideceth-7 (and) Trideceth-5	Dimethicone (and) Laureth- 4 (and) Laureth-23 (and) Salicylic acid	Phenyl Trimethicone (and) Laureth-4 (and) Silicone Quaternium-17 (and) Laureth- 23
Anionic	Cationic	Non-ionic	Non-ionic	Non-ionic	Non-ionic
60%	35% / 50%	20%	15%	50%	22%
200 cSt	5 cSt / 200 cSt	30 cSt	20 cSt	5000 cSt	
Phenoxyethanol	Phenoxyethanol	Caprylyl glycol and Phenethyl alcohol	Phenoxyethanol	Salicylic acid	Preservative free
X		Х	х	х	X
X	X	X	Х	Х	X
	X	X	Х	Х	X
	Х	X	X	X	Х
0,5 to 4%	0,5 to 2%	0,5 to 2%	2 to 10%	0,5 to 4%	1 to 4%
medium	high	high	high	medium	high
low cost,	ease of use	clear systems,	clear systems,	low cost,	clear systems,
ease of use		preservative free	ease of use	ease of use	preservative free
ease of detangling, shine, silkiness	ease of detangling, smooth & soft dry feel, shortens hair drying time	ease of detangling, color protection	ease of detangling, heat protection, color protection, no build up effect	ease of detangling, shine, softness	ease of detangling, excellent gloss, excellent wet combing, softness



Amino oils

- BRB SF 240 Amodimethicone
- BRB SF 430 Amodimethicone

	Nitrogen	Viscosity
BRB SF 240	0.2 %	4000 cSt
BRB SF 430	0.4 %	3000 cSt

- Ingredient for Hair Care formulations to enhance conditioning
- Free of emulsifiers and preservatives
- Easy to process into hair-care formulations (emulsified or added in the oil phase) of rinse-off or leave-on hair products
- Provides smooth feel to dry hair
- Improves wet and dry combing
- Long lasting conditioning without build up



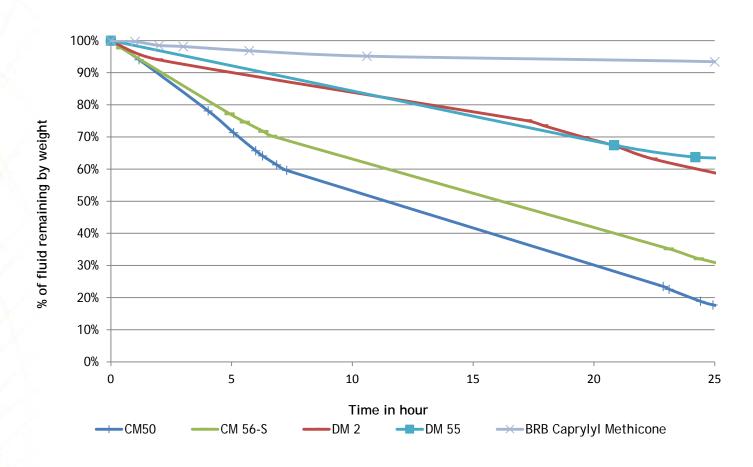
Alkyldimethicones

BRB Caprylyl methicone

BRB Caprylyl Methicone			
Field application: Skin Care, Color Cosmetics and Sun Care			
Sensory	Performance		
Suppleness, smooth silky light feel	Oil & waxes compatibility		
Great spreadability	Pigment dispersant		
Gives shine	Keeps skin moisturized with no occlusive effect		
Reduce tackiness, greasiness and stickiness	Reduce surface tension of organic oils (spreadability)		
Enhance sensory of natural ingredients	Great ability to distribute UV filters: SPF booster		
Moderate volatility			



Volatile Profile of BRB Caprylyl Methicone



Moderate volatility- less dry feel compare to volatile silicones



Alkyldimethicones

- BRB 2835: Cetyl dimethicone
- BRB 2836: Stearyl dimethicone (and) Octadecene



- Enhance sensory of natural ingredients, providing unique smooth silky feel
- Organic compatibility, improve spreadability
- Pigment compatibility, SPF booster
- Water resistance
- Applications: Hair Care, Body & Skin Care, Lip Care, Color Cosmetics and Sun Care



Alkyl functional Silane

- BRB 2894: Triethoxycaprylylsilane (NEW)
- Very reactive Surface-treating agent for pigments and powders
- Imparts excellent hydrophobicity
- Improves dispersibility in organic media.
- Lower oil absorption compared to untreated pigments
- Improves water resistance and long lasting



Silicone resins

• B	RB TMS	Trimethylsiloxysilicate
-----	--------	-------------------------

• BRB TMS-50C Cyclopentasiloxane (and) Trimethylsiloxysilicate

• BRB TMS-30D Dimethicone (and) Trimethylsiloxysilicate

• BRB TMS-50I Isododecane (and) Trimethylsiloxysilicate

New

- BRB Color Lock Isododecane (and) Trimethylsiloxysilicate (and) Dimethicone
- Custom made
- Excellent film former, providing long lasting effect
- Wash-off and rub-off resistant
- Unique smooth non-tacky feel





Silicone resins

- BRB PMS-2 Polymethylsilsesquioxane
- BRB PMS-5 Polymethylsilsesquioxane
- Soft focus effect, reduction of fine lines and wrinkles
- Luxurious smooth dry feel
- Excellent lubricity, due to ball bearing effect
- Prevention of pigment and powder agglomeration
- Sebum absorption
- Water repellence improvement
- Applications : Skin Care and Color cosmetics





BRB Personal Care

We would like to offer you:

- Greater flexibility
- A wide range of products
- Worldwide coverage
- We are:
- Highly experienced in tailor made solutions
- Highly experienced in toll manufacturing



