

SELECTION GUIDE

BELSIL®	RG 100	RG 90	REG 1102	REG 102	EG 6000	EG 5
Special transfer resistance	✓	✓	✓	✓	✗	✗
Volatile solvent	✓	✓	✗	✓	✓	✓
High solvent compatibility	✗	✓	✓	✓	✓	✓
D4 and D5 level below < 0.1 %	✗	✓	✓	✗	✓	✗
Benefits	<ul style="list-style-type: none"> • Fast drying • Long lasting 	<ul style="list-style-type: none"> • Fast drying • Long lasting • Alternative solvent to cyclics 	<ul style="list-style-type: none"> • Long lasting • Improved play time • Improved compatibility with solvents 	<ul style="list-style-type: none"> • Fast drying • Long lasting • High transparency 	<ul style="list-style-type: none"> • Enhanced skin feel • Very smooth 	<ul style="list-style-type: none"> • Enhanced skin feel

Note: the above products can be used instead of standard silicone elastomers

FOR A VARIETY OF APPLICATIONS

BELSIL® elastomer gels and elastomer resin gels are ideal for formulating a wide variety of applications, ranging from skin care to color cosmetic products.

Skin & Sun Care

- Nourishing night cream W/O
- Nourishing body lotion
- Protective moisturizing lotion for babies
- Tropical summer butter

Color

- O/W liquid foundation
- W/O cream foundation
- Satin liquid foundation O/W
- Eye shadow
- BB cream
- CC cream

HOW CAN WE HELP YOU?

We will gladly help you turn your products into bestsellers. WACKER silicone products foster innovation by offering considerable added value. Our technical experts will gladly help you develop products that reflect current trends and are tailored to regional demands.

For more information, visit us at www.wacker.com/belsil

BELSIL® is a registered trademark of Wacker Chemie AG.

WACKER

CREATING TOMORROW'S SOLUTIONS

WACKER

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PERSONAL CARE | BELSIL®

SILICONE ELASTOMER GEL –
SHAPING YOUR SENSORY EXPERIENCE

7300e/04-18 supersides 7300e/04-16

The data presented in this flyer are in accordance with the present state of our knowledge, but do not absolve the user from carefully checking all supplies immediately on receipt. We reserve the right to alter product constants within the scope of technical progress or new developments. The recommendations made in this brochure should be checked by preliminary trials because of conditions during processing over which we have no control, especially where other companies' raw materials are also being used. The information provided by us does not absolve the user from the obligation of investigating the possibility of infringement of third parties' rights and, if necessary, clarifying the position. Recommendations for use do not constitute a warranty, either express or implied, of the fitness or suitability of the product for a particular purpose.

WHY ELASTOMER GELS?

A luxurious sensory experience has become one of the most-desired attributes for skin care and cosmetic products. BELSIL® elastomer gels from WACKER give your skin the unique velvety soft feel it deserves.

Because at WACKER, we understand that when it comes to the skin, feeling is believing.



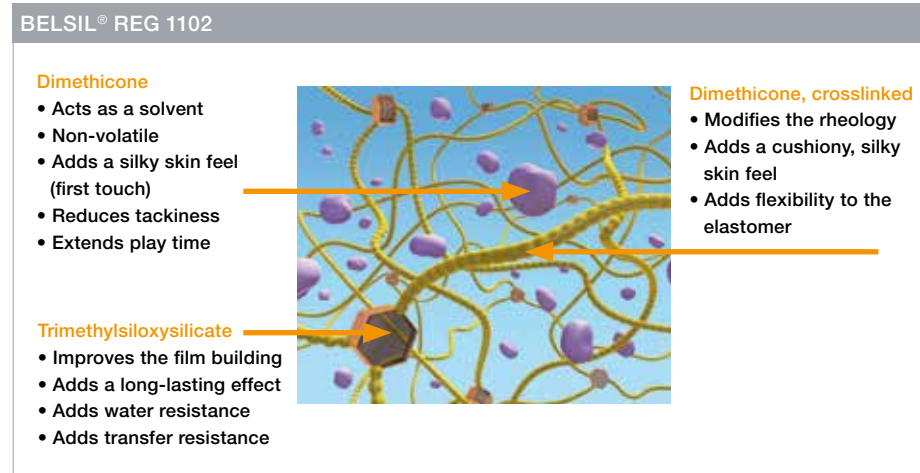
BELSIL® elastomer gels are specially formulated for today's trends, and to meet increasing market demands for products that deliver a unique sensory experience

A trend toward products with exceptional skin profiles has driven the skin care and color cosmetics markets for the past five years¹. A silky, powdery sensation produces a sense of luxury, which makes application a more pleasurable experience.

The BELSIL® elastomer gel product series enhances this effect in your formulation, offering you an unforgettable sensory experience with multiple other benefits for your skin.

A Sophisticated Architecture for a High-Performance Material

A standard silicone elastomer gel is comprised of lightly crosslinked siloxane gel particles swollen in a solvent. BELSIL® products use various types of elastomer gel actives and solvents at different viscosities, which help make your products feel richer. In elastomer resin gels, the film-forming property boosts the functionality of the formulation. The following figure shows our BELSIL® REG 1102 product as an example:



PRODUCT PORTFOLIO

At WACKER, we believe in the best for your products. Our extensive product portfolio offers unlimited opportunities for perfecting your products.

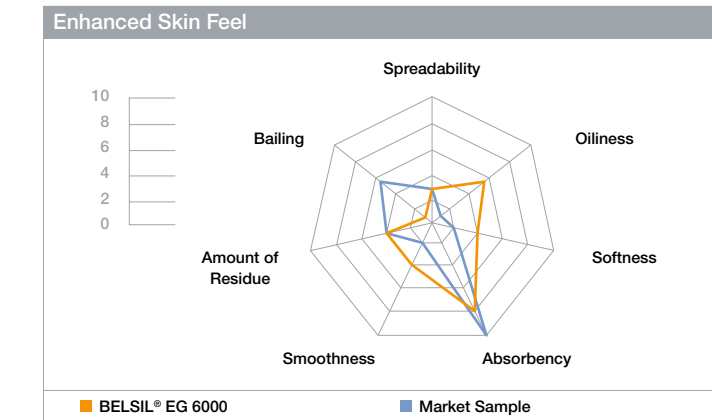
	BELSIL® RG 90	BELSIL® RG 100	BELSIL® REG 1102	BELSIL® REG 102	BELSIL® EG 5	BELSIL® EG 6000
INCI Name	Isododecane Vinyl dimethyl/ Trimethylsiloxysilicate Stearyl Dimethicone Crosspolymer	Cyclopentasiloxane, Dimethicone/ Vinyltrimethylsiloxy- silicate Crosspolymer	Dimethicone, Dimethicone/ Vinyltrimethylsiloxy- silicate/Crosspolymer	Cyclopentasiloxane, Dimethicone/ Vinyltrimethylsiloxy- silicate Crosspolymer	Cyclopentasiloxane and Dimethicone/ Vinyl Dimethicone Crosspolymer	Dimethicone and Divinyl dimethicone/ Dimethicone Crosspolymer
Solids content	~ 20 %	~ 20 %	~ 20 %	~ 14 %	~ 14 %	~ 13 %
Solvent	Isododecane	Cyclopentasiloxane	Dimethicone	Cyclopentasiloxane	Cyclopentasiloxane	Dimethicone
Volatile Solvent	Yes	Yes	No	Yes	Yes	Yes
Density	0.82 g/cm ³	0.94 g/cm ³	0.93 g/cm ³	0.95 g/cm ³	0.95 g/cm ³	0.90 g/cm ³
Viscosity	~ 30,000 mPa s	~ 125,000 mPa s	~ 100,000 mPa s	~ 100,000 mPa s	~ 350,000 mPa s	~ 100,000 mPa s
Skin Feel	Velvety, powdery	Light, silky	Silky, velvety	Silky	Light, powdery	Silky

- Key Benefits**
- Adding a **cushiony** skin feel
 - Increasing **water resistance**
 - Forming **long-lasting, non-tacky** films
 - Modifying **rheology**
 - **Adding body/texture** to formulations
 - **Increasing SPF** in sunscreen formulation
 - Absorbing **oils and cosmetic fluids**
 - **Easily incorporated** into formulations

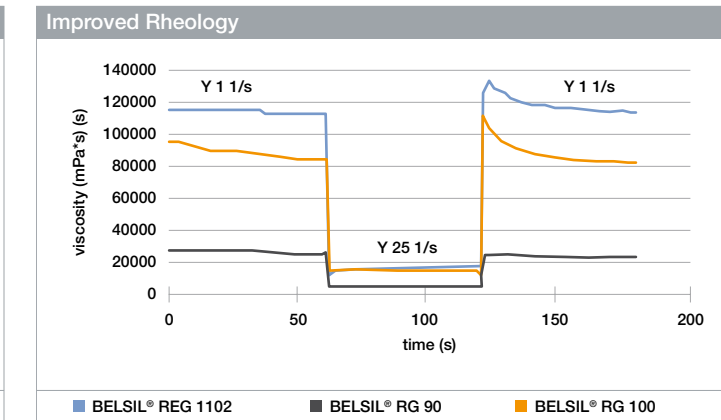


BELSIL®: EG 6000 - EG 5 - REG 1102 - RG 100 - RG 90 - REG 102

SPECIAL FEATURES & PROPERTIES



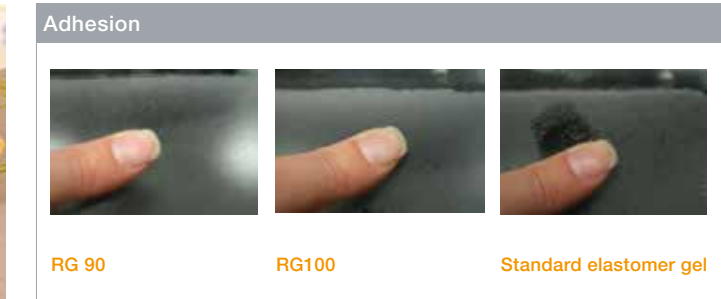
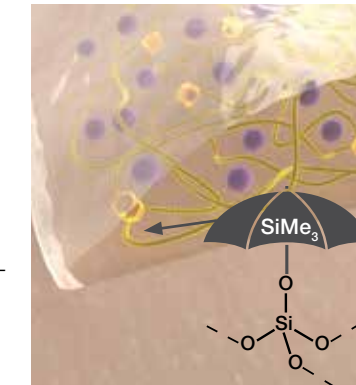
BELSIL® EG 6000 is a silicone elastomer gel that is swollen in a volatile dimethicone. It is easy to distribute on skin and gives an excellent soft and smooth skin feel.



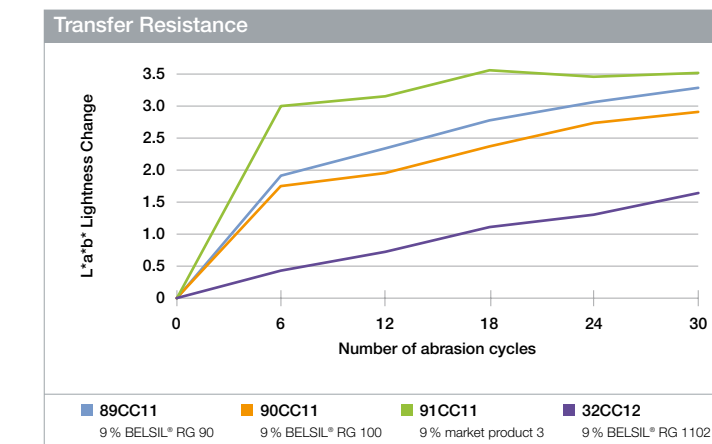
BELSIL® elastomer gels exhibit shear-thinning rheology, which **improves distribution** of skin care creams and color cosmetics.

Film-Forming Effects*

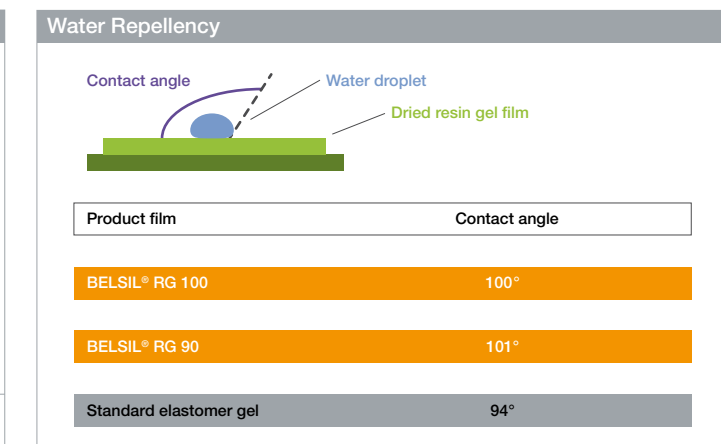
BELSIL® elastomer resin gels (RG 90, RG 100 and REG 1102) incorporate trimethylsiloxysilicate (TMS) to create film-forming properties. TMS improves water and transfer resistance, adhesion, and multifunctionality of the formulation.



BELSIL® elastomer gels create **homogeneous coatings** that are not easily wiped off.



BELSIL® elastomer gels create **long-lasting effects** by improving the transfer resistance.



BELSIL® RG 90 and RG 100 create **less tension** between water droplets and surfaces.

¹Mintel GNPD reported a 35% increase in the number of newly launched products that focused on creating a silky, luxurious feel on the skin (APAC market data, years 2010-2014)

*Most prominent in elastomer resin gel products