



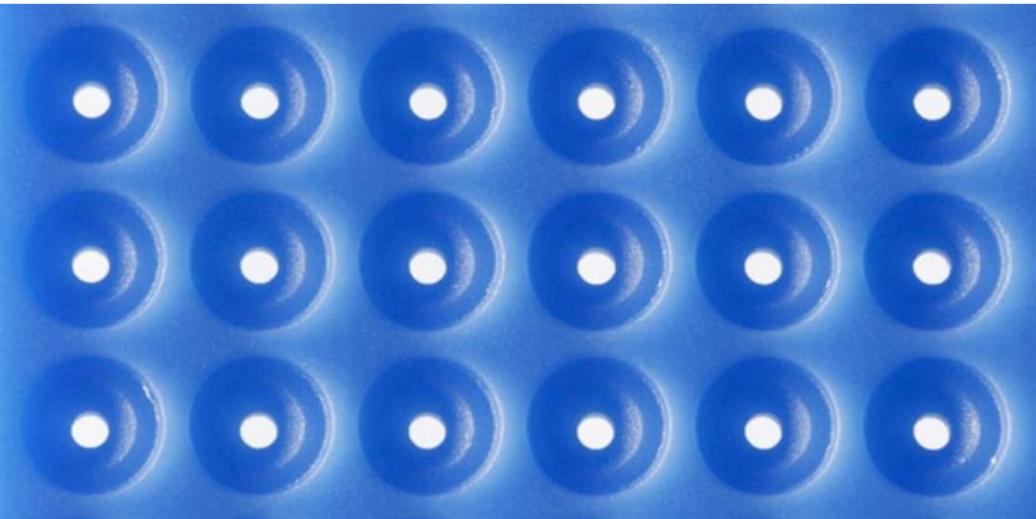
WACKER

SILICONES

ELASTOSIL®

NOVEL OIL-BLEEDING SILICONE RUBBER GRADES

CREATING TOMORROW'S SOLUTIONS



INNOVATIVE AND EFFICIENT
WACKER'S SELF-LUBRICATING
SILICONES

SO THAT EVERYTHING GOES SMOOTHLY

Self-Lubricating Silicones

Automated assembly is essential nowadays for large production runs. Silicone elastomers from WACKER are ideal for mass production, but they have the characteristic dull surface of elastomers. While this non-slip effect is desired in many applications, it is a nuisance where automated production requires that parts slip into their mountings. And that is precisely why we have begun developing self-lubricating silicones that bleed oil after vulcanization.

Innovative Silicones

WACKER SILICONES proudly presents the result of this continuous development and research work to elastomer processors: the new ELASTOSIL® LR 3800 and ELASTOSIL® R *plus* 4800 self-lubricating liquid and solid silicone lines.

They meet today's requirements on oil-bleeding materials in a very special way, unlocking a wealth of new possibilities for the future.

OUR NEW GRADES SLIP OF THEIR OWN ACCORD

Oil-bleeding ELASTOSIL® LR grades					
Oil content [%]	1	2	3	4	6
Hardness [Shore A]					
20					LR 3846/20
30			LR 3843/30	LR 3844/30	LR 3846/30
40		LR 3842/40		LR 3844/40	
50	LR 3841/50	LR 3842/50		LR 3844/50	
60		LR 3842/60			
70		LR 3842/70			

New Self-Lubricating Liquid Silicones

Our self-lubricating liquid silicones can be impressively combined in any number of ways. If you can't find the combination you want, just ask us about it!

Fast and Simple

To help customers recognize the special abilities of ELASTOSIL® at a glance, we've devised an easy-to-understand nomenclature for this product line: the number 8 in the second position of the product designation indicates the type of product; in this case, oil-bleeding materials. The number X in the third position stands for highly specific properties of the product, such as above-average tear resistance. And the last number Y indicates the oil content in percent.

Nomenclature LR 38XY/..

3 for LSR

8 for oil-bleeding

X for special properties

Y for oil content in %

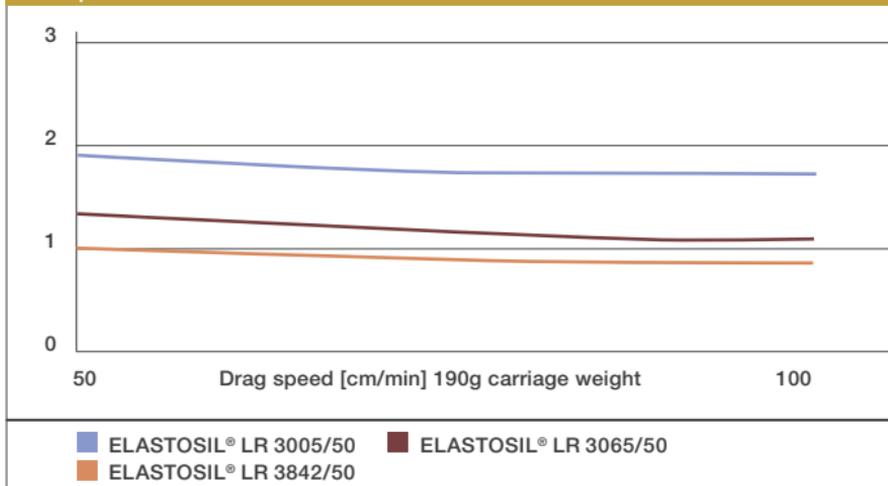
And where the cut strength or the tear resistance of the liquid silicones is inadequate, try our new, platinum-catalyzed one-part solid silicones.

New Self-Lubricating Solid Silicones

- ELASTOSIL® R *plus* 4806/20: excellent cut resistance, e.g. for sealing pads in weather packs
- ELASTOSIL® R *plus* 4846/30: further improved mechanical strength, very good cut resistance

All our new products can be processed by the methods usually employed for liquid silicones or platinum-catalyzed solid silicones. The materials exhibit very good flow, a wide processing window and various application-optimized mechanical properties.

A comparison of coefficients of friction



Better and Better Still

The new grades in our ELASTOSIL® LR and ELASTOSIL® R *plus* line come not only with the consistently high quality for which WACKER SILICONES is renowned, but with a whole host of other advantages:

- Application-optimized mechanical properties, and thus improved cut resistance
- Wide processing window
- Retention of all typical silicone properties, such as hot-air resistance and low-temperature flexibility
- Rapid vulcanization
- Very good compression set (also long-term compression set); liquid silicones do not even require postcuring

It Doesn't Always Have to Be Oil

The alternative to self-lubricating silicones: ELASTOSIL® LR 3065, a non-postcuring liquid silicone with new haptic properties.

The surface of this new grade has a much lower coefficient of friction compared with conventional silicones (see diagram). And that is why ELASTOSIL® LR 3065 is the right choice in many assembly situations as an oil-free, high-slip alternative to conventional oil-bleeding silicones.

If you want to know more, ask for our flyer: Silicone Elastomers with New Haptic Properties.

The data presented in this brochure are in accordance with the present state of our knowledge, but do not absolve the user from carefully checking all supplies immediately upon receipt. We reserve the right to alter product constants within the scope of technical progress or new developments. The information given 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.

WACKER

SILICONES

Wacker Chemie AG
Hanns-Seidel-Platz 4
81737 München, Germany
info.silicones@wacker.com

www.wacker.com