



**WACKER**

**SILICONES**

**ELASTOSIL®**

SILICONE RUBBER  
WITH NOVEL HAPTIC  
PROPERTIES

CREATING TOMORROW'S SOLUTIONS



RULE OUT FRICTION LOSSES  
WITH OUR SILICONES

# BECAUSE WE'VE OVERCOME THE NON-SLIP EFFECT

## Friction as Needed

Silicone elastomers are noted for their rather dull, non-slip surfaces and high coefficient of friction. And that usually means poor slip. Naturally, this is highly advantageous for non-slip applications. But there are other applications which call for slippery surfaces with no friction losses, such as the assembly of silicone parts or the pulling and transporting of silicone hoses and cables.

## Built-In Innovation

WACKER SILICONES has managed to develop an innovative technology that can greatly lower the coefficient of friction. Our new products – available as solid and liquid silicones – are the oil-free alternative to oil-bleeding silicones. Unlike the latter, our new silicone grades can be used for more than just technical applications. In fact, they can be used wherever slip and reduced friction are needed. They are particularly suitable for food-contact applications and medical devices.

# FEEL THE PROGRESS

## Compelling Properties

As these new silicones from WACKER are addition curing, processing them is a particularly clean and rapid matter. What makes them

special is that they yield low-friction surfaces. And that is just one reason why this innovative product class is ahead of its time.

Solid (HTV) and liquid silicone rubber (LSR) with reduced surface friction	
Product	Properties
ELASTOSIL® LR 3065/30, 50	LSR with low compression set (without post-curing) for technical applications
ELASTOSIL® LR 3066/40, 60, 80	LSR for food-contact applications; complies with FDA <sup>1</sup> and BfR <sup>2</sup>
SILPURAN® 6600/40, 50, 60	LSR for medical applications, complies with various ISO 10993 and United States Pharmacopoeia (USP) Class VI standards on biocompatibility
ELASTOSIL® R <i>plus</i> 4066/60	HTV (1-pack, molding) for technical applications and food-contact applications; complies with FDA <sup>1</sup> and BfR <sup>2</sup>
ELASTOSIL® R <i>plus</i> 4366/60	HTV (2-pack, extrusion) for technical applications and food-contact applications; complies with FDA <sup>1</sup> and BfR <sup>2</sup>
SILPURAN® 8630/60	HTV (2-pack, extrusion) for medical applications, complies with various ISO 10993 and United States Pharmacopoeia (USP) Class VI standards on biocompatibility

<sup>1</sup> FDA 21 CFR § 177.2600 „Rubber articles intended for repeated use“ (FDA = Food and Drug Administration)

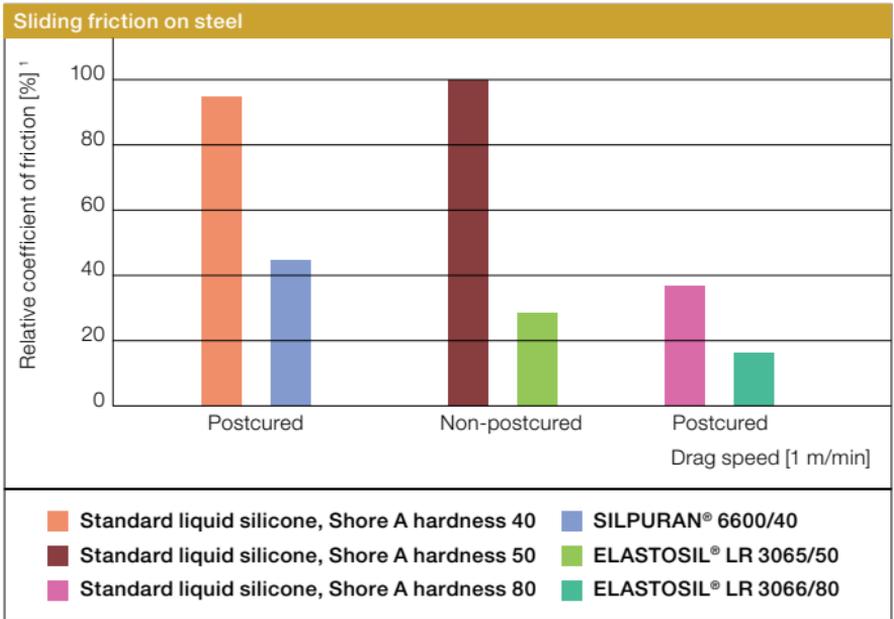
<sup>2</sup> BfR recommendation “XV. Silicones” (BfR = Federal German Institute for Risk Assessment)

# A COMPARISON SHOWS THE DIFFERENCE

## Whether in Molding...

Unlike standard liquid silicone grades, the new LSR products with enhanced haptic properties

offer compellingly lower coefficients of friction over a wide hardness range.

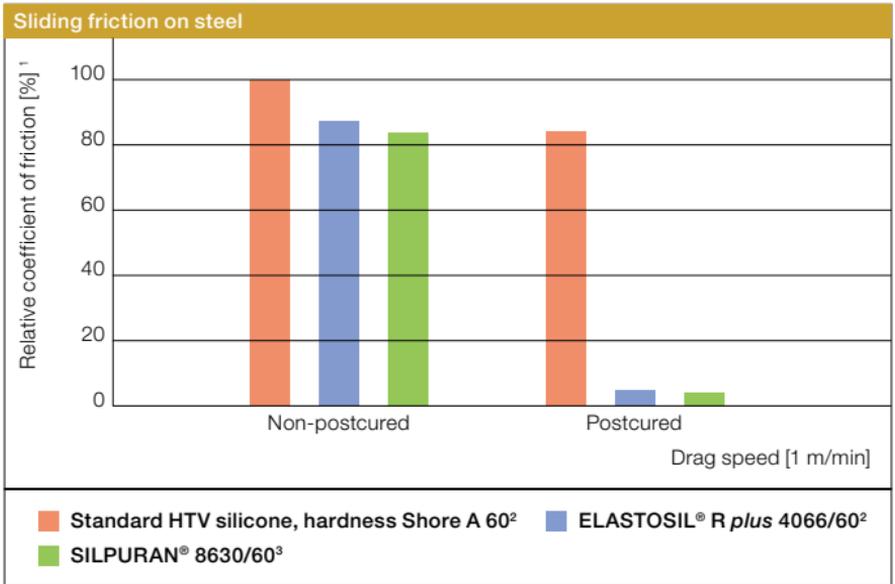


<sup>1</sup> Relative to standard liquid silicone, hardness 50 Shore A, non-postcured

### ...or in Extrusion

We supply friction-reduced solid silicones for press curing and extrusion. The friction-lowering effect is already present in the non-postcured

state and can be further boosted by post-curing (4h at 200 °C).



<sup>1</sup> Relative to standard liquid silicone, hardness 60 Shore A, non postcured

<sup>2</sup> Press-cured

<sup>3</sup> Extruded

# ALWAYS CUSTOMIZED

## Silicones and Service

Innovative products aside, WACKER firmly believes in providing customized, integrated service and support worldwide.

We provide our customers with ready access to comprehensive analytical techniques and ultra-modern laboratory and test facilities in our dedicated service centers. With the support of our expert teams,

you will be able to develop a constant stream of new solutions and customize WACKER products to your specific processes.

Just ask about the WACKER service package.

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.

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