

硅基润滑脂



用于阀门、管件及密封件的特殊润滑剂 | 饮用水接触许可 | NSF-H1食品级认证 | BAM认证

WEICON硅基润滑脂质地透明、附着力强，与塑料有极好的兼容性。经美国国家卫生基金会NSF的H1食品级认证，这款产品适合在敏感行业领域中作为阀门、管件和密封件的润滑剂来使用。同时它也符合德国联邦环保局的饮用水接触标准KTW。由此，该润滑脂可广泛用于食品和饮料工业、卫生与供暖领域、制药工业，以及密封技术领域。WEICON硅基润滑脂已通过德国联邦材料研究测试机构BAM的认证与安全技术评估——相关信息请参考德国原材料与化学工业职业协会BG RCI的信息页M 034-1即“用于氧气环境的非金属材料清单”（DGUV Information 213-075）。WEICON硅基润滑脂具有极佳的材料兼容性，无嗅无味，耐温范围大（-50°C至+200°C），因而应用广泛。既可以作为润滑剂用于塑料或橡胶材质的部件与密封件，阀门、管件和密封圈，以及各种仪器和设备，也可用作O型圈的装配辅助材料。

特性	
基础油	硅油
基础增稠剂	凝胶
颜色	无色, 透光
名称缩写	DIN 51502 MSI 2 S-50
质地分类	DIN 51818 NLGI-第2-3级
保质期	室温下 24 个月
物理参数	
密度	(+20°C) DIN 51757 0,98 g/cm³
基础油粘度 (40 °C)	DIN 51 562 75 mm²/s
基础油粘度 (+100 °C)	DIN 51 562 31 mm²/s
润滑脂锥入度	DIN ISO 2137 240-270 1/10 mm

重要提示
本技术参数表中所列出的所有信息和建议均不得视为对产品特性的保证。这些信息来源于我们的实验室测试结果和经验。然而，鉴于我们并不知悉每位用户的实际应用情况，无法确保其遵守操作条件，因而对相关信息不承担约束性责任。我们仅能对我们产品始终如一的高品质作出保证。建议用户通过足量的自行测试来确定相关产品是否能够实现您所期待的效果。与此相关的任何索赔要求都不予考虑。对于未遵照相关操作规程或将产品用于陌生用途的情况，用户须独自承担全部责任。

WEICON Middle East L.L.C.
United Arab Emirates
phone +971 4 880 25 05
info@weicon.ae

WEICON Inc.
Canada
phone +1 877 620 8889
info@weicon.ca

WEICON Czech Republic s.r.o.
Czech Republic
phone +42 (0) 417 533 013
info@weicon.cz

WEICON Ibérica S.L.
Spain
phone +34 (0) 914 7997 34
info@weicon.es

WEICON GmbH & Co. KG
(Headquarters) Germany
phone +49 (0) 251 9322 0
info@weicon.de

WEICON Italia S.r.L.
Italy
phone +39 (0) 010 2924 871
info@weicon.it

WEICON Romania SRL
Romania
phone +40 (0) 3 65 730 763
office@weicon.com

WEICON SA (Pty) Ltd
South Africa
phone +27 (0) 21 709 0088
info@weicon.co.za

WEICON South East Asia Pte Ltd
Singapore
Phone (+65) 6710 7671
info@weicon.com.sg

WEICON Kimya Sanayi Tic. Ltd. Şti.
Türkiye
phone +90 (0) 212 465 33 65
info@weicon.com.tr

WEICON Colombia S.A.S
Colombia
Phone: +57 314 793 86 06
Email: info@weicon.co

高效润滑油脂

高效润滑油脂

热力参数	
耐温范围	-50°C至+200°C
滴点	IP 396 >200 °C
热容量	DIN EN ISO 22007-4 1,295 J/(g·K)
热传导率	DIN EN ISO 22007-4 0,445 W/m·K
热扩散率	0,351 mm²/s
机械性能	
耐久性	DIN 51807 1-90
EMCOR腐蚀测试	DIN 51802标准 (蒸馏水) 1 / 2
Oxidationsresistent	99°C, 100% rel. Feuchte, 100hPa 不含
電化學參數	
介电强度	DIN EN 60243-1 (20°C) 9,2 kV/mm
许可与标准	
NSF认证	H1 (FDA 21 CFR)
卫生监管部门	风险组别 P2

使用须知

使用WEICON产品时，需注意我们在EG材料安全数据表（www.weicon.cn）上所列出的关于产品在物理、安全、毒理和生态方面的详细参数与规定。

涂抹

可使用处理抹刀或多功能刮铲Flexy将硅基润滑脂以所需用量涂抹到需要润滑的部件上。

储藏

WEICON 高性能润滑脂应储藏于室温且干燥的室内环境中；未开封产品的存储温度应在+18°C至+28°C的范围内，而开封的产品则需要重新进行气密密封。

配件

10000147	清洁剂S, 500 ml, 透明
10000347	清洁剂S, 5 L, 无色, 透明
10039119	快速清洁喷剂, 500 ml, 无色, 透明
10055297	工业清洁剂, 500 ml
10010887	处理抹刀, 1 件
10022562	处理抹刀, 1 件
10010066	多功能刮铲 Flexy, 1 件
10065455	刷子35, 长, 粘合剂, 1 件

建议使用的辅助工具

无纺布

可选的包装容量

10050558	硅基润滑脂, 0,45 kg, 无色, 透光
10050563	硅基润滑脂, 1 kg, 无色, 透光
10051118	硅基润滑脂, 25 kg, 无色, 透光
10053151	硅基润滑脂, 5 g, 无色, 透光

硅基润滑脂

换算表格

$(^{\circ}\text{C} \times 1,8) + 32 = ^{\circ}\text{F}$
 $\text{mm}/25,4 = \text{inch}$
 $\mu\text{m}/25,4 = \text{mil}$
 $\text{N} \times 0,225 = \text{lb}$
 $\text{N}/\text{mm}^2 \times 145 = \text{psi}$
 $\text{MPa} \times 145 = \text{psi}$

$\text{Nm} \times 8,851 = \text{lb}\cdot\text{in}$
 $\text{Nm} \times 0,738 = \text{lb}\cdot\text{ft}$
 $\text{Nm} \times 141,62 = \text{oz}\cdot\text{in}$
 $\text{mPa}\cdot\text{s} = \text{cP}$
 $\text{N}/\text{cm} \times 0,571 = \text{lb}/\text{in}$
 $\text{kV}/\text{mm} \times 25,4 = \text{V}/\text{mil}$

	高效润滑脂 AL-W	高效润滑脂 AL-M	高效润滑脂 AL-F	高效润滑脂 AL-T	高效润滑脂 AL-H	硅基润滑脂	高粘度食品级硅基润滑脂 HV
滚动轴承	x	x	x	x	x		
滑动轴承	x	x	x	x	x		
链条	x						
关节 或 接头	x	x	x	x	x	x	x
杠杆 或 拉杆 (语境依)	x	x	x	x	x	x	x
直线导轨 或 滑动导向	x	x	x	x	x	x	x
线性导轨系统 或 直线运动系统				x	x	x	x
主轴 或 纺锤 (语境依)	x	x	x	x	x	x	x
花键轴	x	x	x	x			
凸轮轴		x	x				
弹簧		x					
开式齿轮 或 开放式齿轮	x	x	x				
蜗杆传动 或 蜗轮蜗杆减速机	x	x	x				
钢丝绳	x						



重要提示
本技术参数表中所列出的所有信息和建议均不得视为对产品特性的保证。这些信息来源于我们的实验室测试结果和经验。然而，鉴于我们并不知悉每位用户的实际应用情况，无法确保其遵守操作条件，因而对相关信息不承担任何约束性责任。我们仅能对我们产品始终如一的高品质作出保证。建议用户通过足量的自行测试来确定相关产品是否能够实现您所期待的效果。与此相关的任何索赔要求都不予考虑。对于未遵照相关操作规程或将产品用于陌生用途的情况，用户须独自承担全部责任。

Miscibility of WEICON Allround Lubricant with other greases

The best results when using WEICON Allround Lubricant high-performance greases can only be achieved after complete removal of all grease residues. In practice, however, complete removal of such grease residues is sometimes impossible. In these cases, it is necessary to test whether the WEICON product intended for use is generally compatible with the grease still present. This test must be carried out on the basis of the two main components of the grease (base oil and thickener). Both main components must be miscible (compatible).

Miscibility of base oils

Base oil	Mineral oil (AL-M, AL-W, AL-F, AL-T)	Polyalphaolefins (AL-H)	Ester	Polyglycol	Silicone (methyl)	Silicone (phenyl)	Polyphenyl ether	Perfluoro- polyether oil
Mineral oil (AL-M, AL-W, AL-F, AL-T)	---	++	++	0	0	+	0	0
Polyalphaolefins (AL-H)	++	---	++	0	0	0	0	0
Ester	++	++	---	++	0	++	++	0
Polyglycol	0	0	++	---	0	0	0	0
Silicone (methyl)	0	0	0	0	---	+	0	0
Silicone (phenyl)	+	0	++	0	+	---	++	0
Polyphenyl ether	0	0	++	0	0	++	---	0
Perfluoropolyether oil	0	0	0	0	0	0	0	---

++ = miscible + = limited resistance 0 = not miscible

Date: 13/06/2024

Miscibility of thickeners

Thickener	Ca soap (anhydrous) (AL-W)	Ca-complex soap	Li soap (AL-F)	Li-com- plex soap	Li/Ca soap (AL-M)	Na soap	Gels*	Ba-com- plex soap	Al-complex soap (AL-H, AL-T)	Polyurea
Ca soap (anhydrous) (AL-W)	---	++	++	++	++	0	++	++	0	++
Ca-complex soap	++	---	++	++	++	0	++	++	0	++
Li soap (AL-F)	++	++	---	++	++	0	++	++	0	++
Li-complex soap	++	++	++	---	++	0	0	++	++	0
Li/Ca soap (AL-M)	++	++	++	++	---	0	++	++	0	++
Na soap	0	0	0	0	0	---	++	++	0	++
Gels*	++	++	++	0	++	++	---	++	0	++
Ba-complex soap	++	++	++	++	++	++	++	---	++	++
Al-complex soap (AL-H, AL-T)	0	0	0	++	0	0	0	++	---	++
Polyurea	++	++	++	0	++	++	++	++	++	---

++ = miscible 0 = not miscible

Date: 13/06/2024

WEICON lubricants and their behaviour towards sealing materials (elastomers)

Elastomers	Product						
	AL-T	AL-M	AL-W	AL-H	AL-F	Silicone Grease	Silicone Grease HV
ACM acrylate rubber	++	++	++	++	++	++	++
CR chloroprene rubber	+	+	+	+	+	++	++
CSM chlorosulphonated PE rubber	++	++	++	++	++	++	++
EPDM ethylene propylene diene rubber	--	--	--	--	--	++	++
FKM fluoro rubber	++	++	++	++	++	++	++
NBR nitrile butadiene rubber	++	++	++	++	++	++	++
NR natural rubber	0	--	--	--	--	++	++
SBR styrene butadiene rubber	0	--	--	--	--	++	++
SQM/MVQ silicone rubber	++	++	++	++	++	++	++

++ = resistant + = limited resistance 0 = not tested, preliminary tests or resistance tests are recommended -- = not resistant

Date: 13/06/2024

WEICON lubricants and their behaviour towards plastics

Plastic	Product						
	AL-T	AL-M	AL-W	AL-H	AL-F	Silicone Grease	Silicone Grease HV
ABS	++	++	++	++	++	++	++
CA cellulose acetate	++	++	++	++	++	++	++
EPS expanded polystyrene	++	++	++	++	++	++	++
PA polyamide	++	++	++	++	++	++	++
PC polycarbonate	--	--	--	+	--	++	++
PE polyethylene	++	++	++	++	++	++	++
PE-UHMW polyethylene with ultra high molecular weight	++	++	++	++	++	++	++
PE-LD polyethylene with low density	++	++	++	++	++	++	++
PET polyethylene terephthalate	+	+	+	++	+	++	++
POM polyoxymethylene	++	++	++	++	++	++	++
PP polypropylene	++	++	++	++	++	++	++
PPO polyphenylene oxide	++	++	++	++	++	++	++
PS polystyrene	+	+	+	++	+	++	++
PTFE polytetrafluoroethylene	++	++	++	++	++	++	++
PUR polyurethane	+	+	+	++	+	++	++
PVC polyvinyl chloride	++	++	++	++	++	++	++
TPE thermoplastic elastomers	0	0	0	0	0	++	++

++ = resistant + = limited resistance 0 = not tested, preliminary tests or resistance tests are recommended -- = not resistant

Date: 13/06/2024

The stated resistances are based on laboratory tests and literature references. Due to the large number of raw materials used on the one hand and the complex chemical and morphological structure of the polymers on the other, no guarantee can be given. In critical applications, we recommend carrying out tests and/or consulting our application technology department.