

高效润滑脂 AL-H



耐高温润滑脂 | 无嗅无味 | NSF-H1 食品级认证

WEICON 高效润滑脂 AL-H 适用于滚动轴承、滑动轴承、关节接头、主轴、花键轴和线型导轨系统，在所有允许使用脂类润滑剂的滑动速度下均适用。该产品采用特殊配方，已通过美国国家卫生基金会 NSF 的 H1 食品级认证，因而特别适用于食品工业领域。

特性		
基础油	聚烯烃	
基础增稠剂	复合铝皂	
是否含硅	不含	
颜色	白色	
名称缩写	DIN 51502	KPHC 1P -40
质地分类	DIN 51818	NLGI-第1级
保质期	室温下	24 个月
物理参数		
密度	(+20°C) DIN 51757	0,93 g/cm³
基础油粘度 (40 °C)	DIN 51 562	400 mm²/s
基础油粘度 (+100 °C)	DIN 51 562	40 mm²/s
润滑脂锥入度	DIN ISO 2137	310 - 340 1/10 mm
热力参数		
耐温范围	-40°C至+160°C	
滴点	IP 396	> 200 °C
热容量	DIN EN ISO 22007-4	1,838 J/(g·K)
热传导率	DIN EN ISO 22007-4	0,394 W/m·K
热扩散率	0,23 mm²/s	

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机械性能		
耐水性	DIN 51807	1 - 90
EMCOR腐蚀测试	DIN 51802标准 (蒸馏水)	0 / 0
VKA-测试 最大无卡咬负荷	DIN 51350	3.400 N
VKA-测试 烧结负荷	DIN 51350	3.600 N
VKA-测试 球冠值	DIN 51350 (1分钟/1000N)	0,6 mm
转速特性值	400.000	
電化學參數		
介电强度	DIN EN 60243-1 (20°C)	29,6 kV/mm
许可与标准		
NSF认证	H1 (FDA 21 CFR)	
ISSA编码	53.052.20/21	
IMPA编码	450439/40	

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将高效润滑脂AL-H以所需用量涂抹到需要润滑的部件上。该产品的400g胶瓶包装可借助手动杠杆式润滑脂枪，遵照德标DIN1283等规范，进行轻松操作。

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

润滑脂枪、无纺布

可选的包装容量

10016761	高效润滑脂 AL-H, 0,4 kg, 白色
10016763	高效润滑脂 AL-H, 1 kg, 白色
10016766	高效润滑脂 AL-H, 5 kg, 白色
10016769	高效润滑脂 AL-H, 25 kg, 白色

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。

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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						

此处进入产品主页



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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

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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.