



润滑油产品资料册

Provide you with lubrication solutions



 **惠丰润滑**





企业愿景

Enterprise vision

值得信赖的特种润滑油脂全球品牌

Trusted Global Brands of Specialized Lubricants and Greases



品牌使命

Brand mission

以科技创新为基石用心做好每一滴油

Basing on Technological Innovation, Diligently Crafting Every Drop of Oil



价值观

Sense of worth

诚信 稳健 专注 严谨

Integrity, Stability, Focus, and Precision



企业文化

Corporate culture

以人为本, 专注品质

Human-Centric, Focused on Quality



安全

人——以人为本、文明生产, 保障员工的生命安全

物——全员参与, 保障公司所有物资财产的安全

产品——严格遵循产品工艺规则要求, 保证产品质量的稳定

工作——严格遵循ISO9000质量体系要求, 提高工作执行力



质量



效益

经济——以经济效益为中心, 促进企业不断向前发展

社会——提升公司核心竞争力和品牌效应, 追求卓越, 回馈社会

快速——采用现代生产工艺与管理, 坚持创新、提高生产效率

有效——全员坚持标准化作业, 开源节流, 持续提高工作效率



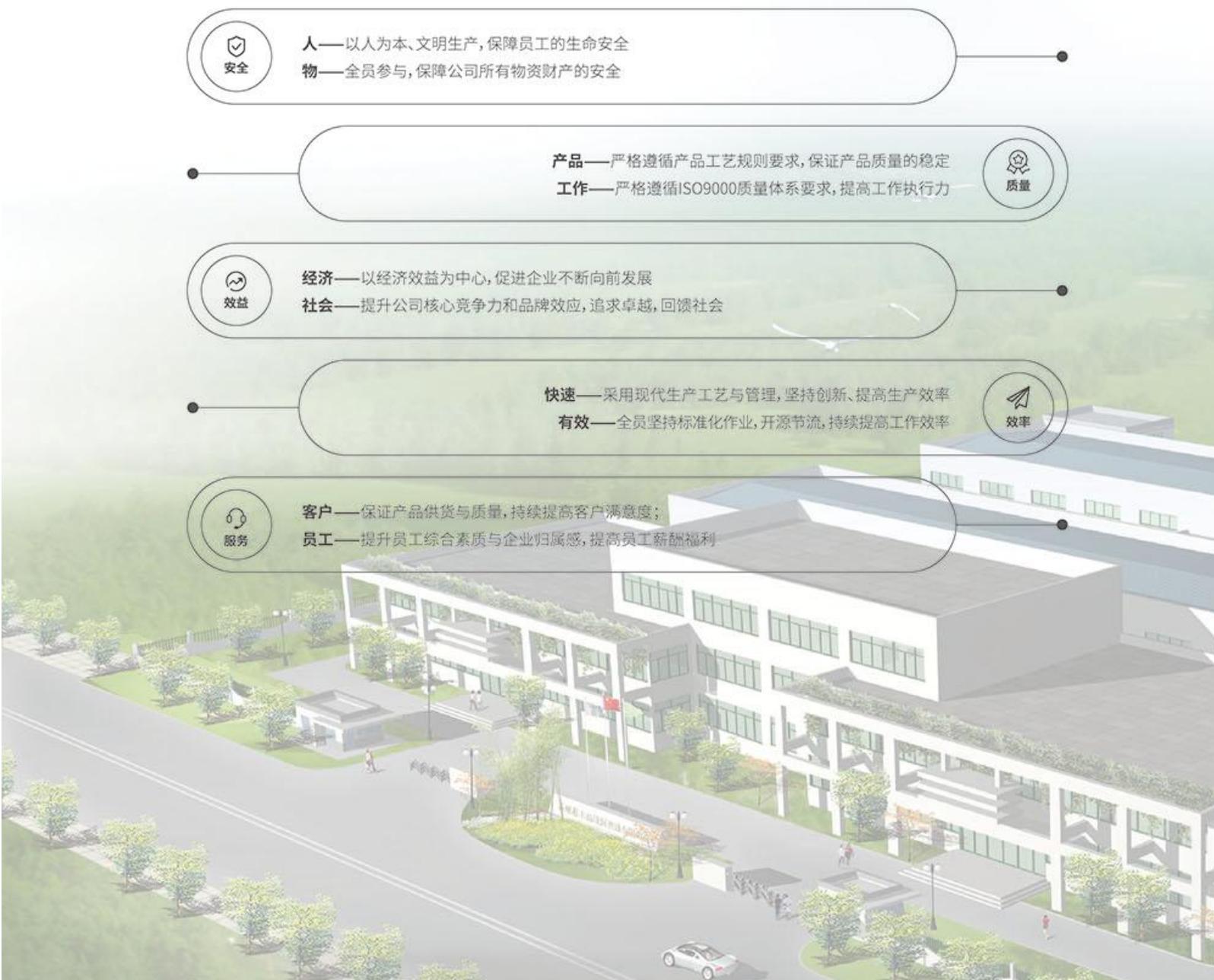
效率



服务

客户——保证产品供货与质量, 持续提高客户满意度;

员工——提升员工综合素质与企业归属感, 提高员工薪酬福利



企业介绍

ENTERPRISE INTRODUCTION

创始于20世纪90年代，由苏州惠丰润滑材料有限公司、上海惠丰石油化工有限公司组成，专业研发、生产、销售各种高级特种润滑油脂产品，以满足现代先进工业设备需要的综合性企业。企业承接了上海市十四项重点工业科技会战项目——特种润滑油系列攻关项目，为彩管工程完成国产化配套用油，并通过了市重点科技项目鉴定。企业专业研制先进的润滑产品替代进口，开发了HFV真空用油、HFD压缩机油、HFM金属加工油、HFH液压油、HFC齿轮油、HFQ热传导油、HFU热处理油、HFT汽轮机油、HFG润滑脂、HFS固体润滑等，共计一百多品种。

惠丰润滑油品质优良、信誉可靠，产品畅销全国各地及东南亚地区。公司连续五年被评为“重合同守信用单位”，获得“国际标准及标志认证证书”“上海市优秀科技产品”“上海市高新技术成果转化项目A级证书”“上海市重点产品质量振兴攻关成果奖”。

Founded in 1990, HUIFENG Lubricants, has established a great reputation for the continual innovate and manufacture of its advanced lubricants technologies that meet the needs of leading manufacturers and sets new industry standards in quality and reliability.

Shanghai HUIFENG Petroleum Co.Ltd., a wholly owned subsidiary company of HUIFENG Lubricants, provide more than 20000 customers with optimal product lubrication solutions. Additionally, HUIFENG customers are supported by HUIFENG R&D Institute, ensuring a total care solution is delivered before and after our service activities.

HUIFENG Lubricants has a wide range of product lines, includes HFV-Vacuum series, HFD-Compressor series, HFM-Metal heating series, HFH-Hydraulic series, HFC-Gear series, HFQ-Transmission series, HFU- Heat treatment series, HFT-Turbine series, HFG-Grease series, HFS-Soild series, and a total of over 100 types.

In 2014, HUIFENG Lubricants achieved a series of new milestone, company was award as “high-tech enterprises”, meanwhile, HUIFENG Lubricants successfully listed on the China NEEQ Stock Exchange Market.





惠丰润滑油服务对象

TARGET CUSTOMERS OF HUIFENG LUBRICANT SERVICES

电子业 Electronics Industry

在电子设备制造过程中,工业润滑油可以用于精密零部件的润滑和保护,以确保设备的正常运转和高效性能。

In the process of electronic equipment manufacturing, industrial lubricants can be used for the lubrication and protection of precision parts to ensure the normal operation and efficient performance of the equipment.

食品加工行业 Food Processing Industry

食品加工设备的润滑油需要符合NSF的相关规定,以保证润滑油不会对食品造成污染。

The lubricating oil of food processing equipment needs to comply with the relevant regulations of NSF to ensure that the lubricating oil does not cause pollution to the food.

医药行业 Pharmaceutical Industry

润滑油在医疗设备的运作中也有着重要作用。例如,在手术器械中使用的润滑油需要无毒无味,同时具有良好的耐高温性能。

Lubricating oil also plays an important role in the operation of medical equipment. For example, the lubricants used in surgical instruments need to be non-toxic, tasteless, and have good high temperature resistance.

新能源行业 New Energy Industry

光伏发电电池制造、电动车锂电池制造过程中的工艺设备均需要润滑油的保护,来确保设备正常运行。

Solar battery manufacturing, electric vehicle lithium battery manufacturing process of the process of equipment all need the protection of lubricating oil, to ensure the normal operation of the equipment.

新材料行业 New Materials Industry

石墨烯材料制造、碳纤维材料制造等设备都需要使用润滑油。

Graphene materials manufacturing, carbon fiber materials manufacturing, etc., the equipment needs to use lubricating oil.

机械制造业 Mechanical Manufacturing Industry

机械设备需要润滑油来保持正常的运转和减少磨损。例如工具机、数控机床、印刷机、纺织机、电梯、风机、空压机、真空泵等都需要润滑油来进行润滑、冷却。

Lubricating oil is required to maintain normal operation and reduce wear for mechanical equipment. For example, machine tools, CNC machine tools, printing presses, textile machines, elevators, fans, air compressors, vacuum pumps, etc. all require lubricating oil for lubrication and cooling.

能源行业 Energy Industry

石油、天然气、煤炭等能源行业中的钻井设备、管道、泵等设备都需要使用润滑油。

Drilling equipment, pipelines, pumps, and other equipment in the oil, natural gas, coal, and other energy industries require the use of lubricating oil.

航空航天工业 Aerospace Industry

润滑油在飞机和航天器的引擎、机械部件和舵机等设备中起到了至关重要的作用。它能够降低摩擦和磨损,保证设备正常运转,同时也能够承受高温高压等极端条件。

Lubricating oil plays a crucial role in the engines, mechanical components, and servo equipment of airplanes and spacecraft. It can reduce friction and wear, ensure the normal operation of equipment, and withstand extreme conditions such as high temperatures and pressures.

钢铁制造业 Steel Manufacturing Industry

钢铁工业中的高炉、轧机、喷淋冷却系统等设备需要使用润滑油来保护设备和延长使用寿命。

Steel Manufacturing Industry: Equipment such as blast furnaces, rolling mills, and spray cooling systems in the steel industry require the use of lubricating oil to protect the equipment and extend its service life.

船舶制造和运输业 Ship Manufacturing And Transportation Industry

船舶的引擎、液压系统和轴承都需要使用润滑油,以保证正常运转和防止故障。

Lubricating oil is needed for the engines, hydraulic systems, and bearings of ships to ensure normal operation and prevent failures.

纺织业 Textile Industry

工业润滑油可以用于纺纱、织布、印染等过程中的机器设备,如纺纱机、织布机、印花机等,以保持设备的正常运转和延长使用寿命。

Industrial lubricants can be used for machinery and equipment in processes such as spinning, weaving, printing, and dyeing, such as spinning machines, weaving machines, printing machines, etc., to maintain normal operation and prolong service life.

化妆品制造业 Cosmetics Manufacturing Industry

在化妆品生产过程中,工业润滑油可以应用于搅拌、混合、输送等各个环节的设备中,保证生产流程的顺利进行。

In the production process of cosmetics, industrial lubricants can be applied to equipment in various stages such as stirring, mixing, and conveying to ensure the smooth progress of the production process.

包装业 Packaging Industry

工业润滑油可以用于包装机器设备的轴承、链条、齿轮等部件,以保证设备正常运转和延长使用寿命。

Industrial lubricating oil can be used to packaging bearings, chains, gears and other parts of machinery and equipment to ensure the normal operation of equipment and extend the service life.



[真空泵油 (合格品、一级品)] [Vacuum Pump Oil (Qualified, First class)]

HFV 系列

性能 Performance

- ★ HFV-100#即为SH0528合格品, HFV-100a属于一级品是HFV-100真空泵油的升级产品。一级品产品还包括HFV-46, 68, 150。
- ★ 一级品具有较好的粘温性能, 保证真空度的同等条件下优于HFV-100#真空泵油。
- ★ 一级品具有较好的抗氧化性能, 以应对氧化性能有一定要求的场合。
- ★ 一级品抗乳化性能优于HFV-100真空泵油, 实现较快速的油水分离。
- ★ HFV-100# conforms to the Standard SH0528, HFV-100a belongs to the first class and is an ideal substitute of HFV-100 vacuum pump oil. The first class products also include HFV-46, 68, 150.
- ★ The first class has good viscosity-temperature characteristic to ensure better vacuum degree than HFV-100 vacuum pump oil at same condition.
- ★ The first class has superior anti-oxidation property, it is available for the situations if needed.
- ★ The first class has better demulsibility compared with HFV-100 to separate oil from water rapidly.



用途 Application

- ★ 适用于粗真空应用的滑阀泵、旋片、活塞真空泵, 也可以用于罗茨真空泵。
- ★ Applicable to use all kinds of slide valve vacuum pump, rotary vacuum pump, piston vacuum pumps also can use roots vacuum pump.

典型数据 Typical data

项目/等级 Item/Grade	100合格品 (SH0528) 100Qualified	一级品 First-Class				试验方法 Method
		46	68	100a	150	
运动粘度(40°C), mm ² /s Kinematic viscosity	90~110	41.4-50.6	61.2-74.8	90~110	135~165	GB/T265
粘度指数≥ Viscosity index	90	90	90	90	90	GB/T2541
闪点(开口), °C≥ Flash point(open cup)	220	220	230	240	250	GB/T3536
倾点, °C ≤ Pour point	-9	-12	-12	-9	-9	GB/T3535
密度(20°C), kg/m ³ ≤ Density	884	880	882	884	885	GB/T1884
抗乳化度(40-40-0)ml, min Demulsibility						
54°C ≤	—	20	20	—	—	GB/T7305
82°C ≤	报告 Report	—	—	20	20	
极限压力, kpa Extreme pressure						
分压 ≤ Differential pressure	—	6.7×10 ⁻⁵	6.7×10 ⁻⁵	6.7×10 ⁻⁵	6.7×10 ⁻⁵	GB/T6306.2
全压 ≤ Total pressure	—	—	—	—	—	

注: 极限压力必须用双级双优真空泵作为试验用泵。以上数据为代表性样品的测定结果, 产品性能以实测为准。

Note: use double-stage and double-excellent vacuum pump as extreme pressure test pump.

The data above values of typical samples only. Product properties should refer to actual measurement.

包装规格 3.5kg /听、4听/箱、13.5kg /桶、170kg /桶

Package 3.5kg /Canteen、4Canteen /Case、13.5kg /Bucket、170kg /Barrel



HFV 系列

[真空泵油 (优级品)] [Vacuum Pump Oil (Premium)]

性能 Performance

- * 型号齐全, 功能选择性大, 可根据不同泵的需要配合合适的油品。
- * 能分别满足规定要求的真空度和使用场合。
- * 良好的泡沫特性, 减少由于溢流、断流引起的真空泵磨损。
- * Various models available for relative vacuum pumps.
- * Meet with the requirements of different vacuum degrees and applications.
- * Perfect foam characteristic to reduce pump wear due to overflow and interruption of work fluid.



用途 Application

- * HFV-46适用于小型单级泵和8L以下的直联泵。
- * HFV-68, 100适用于8L—70L真空泵。
- * HFV-150适用于H150滑润泵和更大规格的真空泵。
- * HFV-46 for small single-stage vane rotary pumps and less than 8 liters vacuum pumps.
- * HFV-68, 100 for vacuum pumps volume from 8 to 70 liters and roots vacuum pump.
- * HFV-150 is suitable for H150 lubrication pumps and larger vacuum pumps.

典型数据 Typical data

项目/等级 Item/Grade	优级品 Superior product				试验方法 Method
	46	68	100	150	
型号	46	68	100	150	GB/T3141
运动粘度(40°C), mm ² /s Kinematic viscosity	41.4~50.6	61.2~74.8	90~100	135~165	GB/T265
粘度指数≥ Viscosity index	100	100	100	100	GB/T2541
闪点(开口), °C≥ Flash point(open cup)	220	230	240	250	GB/T267
倾点, °C ≤ Pour point	-12	-12	-12	-9	GB/T3535
抗乳化度(40-40-0)ml, min Demulsibility					
54°C ≤	10	15	—	—	GB/T7305
82°C ≤	—	—	20	20	
泡沫性(ml/ml) (泡沫倾向/稳定性) Foam characteristic(ml/ml)(Foam tendency/stability)					
24°C ≤	100/0	100/0	100/0	100/0	GB/T12579
93.5°C ≤	75/0	75/0	75/0	75/0	
后24°C ≤ Later 24°C	100/0	100/0	100/0	100/0	
极限压力, kpa Extreme pressure					
分压 ≤ Differential pressure	2.7×10 ⁵	2.7×10 ⁵	2.7×10 ⁵	2.7×10 ⁵	GB/T6306.2
全压 ≤ Total pressure	—	—	—	—	

注: 以上数据为代表性式样的测定结果, 产品性能以实测为准。

Note: The data above values of typical samples only. Product properties should refer to actual measurement.

包装规格 3.5kg /听、4听/箱、13.5kg /桶、170kg /桶

Package 3.5kg /Canteen、4Canteen /Case、13.5kg /Bucket、170kg /Barrel

[高真空油] [High Vacuum Pump Oil]

HFV-M 系列

性能 Performance

- ★ HFV-M高真空油具有精制程度深，芳烃和胶质含量少的优势。
- ★ 粘度指数高，闪点高，在较高温度状态下真空不易下跌。
- ★ 遇水蒸气不易乳化，油水分离性极强。
- ★ 较好的氧化安定性，降低油垢和结焦的产生，减少泵油更换次数。
- ★ Fine purification, small amount of aromatic and gum.
- ★ High flash point and viscosity index to keep stabilization of vacuum degree at high temperature.
- ★ Superior ability of emulsion resistance and oil-water separation when exposed to water vapor.
- ★ Good oxidation stability, inhibition of grease stain and coking and extending the oil-change intervals.



用途 Application

- ★ M高真空油适用于国内外各类机械真空泵。
- ★ M100适用于4L以下直联旋片泵及罗茨泵，在制冷行业中抽水量较大的场合尤为合适。
- ★ M200适用于5L~30L直联旋片泵及罗茨泵，其适于显像管、照明行业中使用。
- ★ M250适用于30L以上直联旋片泵及罗茨泵在制冷、电真空、冷冻干燥、蒸馏、生物、化学工程等行业中使用。
- ★ HFV-M is applicable to various domestic and foreign mechanical vacuum pumps.
- ★ HFV-M100 is suitable for vane rotary vacuum pump and roots pump with volume flow rate of 4 Liter, esp. for refrigerating industry with large pumping.
- ★ HFV-M200 can be applied to vane rotary pump with volume flow rate from 5 Liters to 30Liters, esp. in picture tube and illuminating industry.
- ★ HFV-M250 is suitable for vane rotary vacuum pump and roots pump with volume flow over 30 Liters. Applicable to industries such as refrigeration, electronic-vacuum, distilling, biology, chemical, etc.

典型数据 Typical data

项目/等级 Item/Grade	HFV-M100	HFV-M200	HFV-M250	试验方法 Method
运动粘度(40°C), mm ² /s Kinematic viscosity	41.4~50.6	61.2~74.8	90~110	GB/T265
粘度指数≥ Viscosity index	100	100	100	GB/T2541
闪点(开口), °C≥ Flash point(open cup)	230	240	250	GB/T3536
倾点, °C ≤ Pour point	-20	-20	-15	GB/T3535
腐蚀试验(铜片, 100°C, 3h) 级 ≤ Corrosion Test(T2 Cooper, 100°C, 3h)	1a	1a	1a	GB/T5096
抗乳化度(40-40-0)ml, min Demulsibility				
54°C ≤	10	10	—	GB/T7305
82°C ≤	—	—	10	
泡沫性(ml/ml) (泡沫倾向/稳定性) Foam characteristic(ml/ml)(Foam tendency/stability)				
24°C ≤	50/0	50/0	50/0	GB/T12579
93.5°C ≤	50/0	50/0	50/0	
后24°C ≤ Later 24°C	50/0	50/0	50/0	
极限压力, kpa Extreme pressure				
分压 ≤ Differential pressure	2.0×10 ⁵	2.0×10 ⁵	2.0×10 ⁵	GB/T6306.2
全压 ≤ Total pressure	2.0×10 ⁴	2.0×10 ⁴	2.0×10 ⁴	

注：极限压力必须用双级双优真空泵作为试验用泵。以上数据为代表性式样的测定结果，产品性能以实测为准。

Note: use double-stage and double-excellent vacuum pump as extreme pressure test pump.

The data above values of typical samples only. Product properties should refer to actual measurement.

包装规格 3.5kg/听、4听/箱、13.5kg/桶、170kg/桶

Package 3.5kg/Canteen、4Canteen/Case、13.5kg/Bucket、170kg/Barrel

HFV-A 系列

[高真空油] [High Vacuum Pump Oil]

性能 Performance

- * HFV-A高真空油比M高真空油的使用温度范围更宽。
- * 产品抗磨性能明显提高，能降低泵浦压缩时的界面磨损。
- * 优良的氧化安定性，有效地减少了换油次数。
- * 良好的泡沫特性，减少由于溢流、断流引起的真空泵磨损。
- * HFV-A高真空泵油使泵的使用寿命大大延长，使真空泵长时期保持高真空运转。
- * HFV-A high vacuum oil has wider temperature range compared to the M.
- * Better anti-wear ability to reduce interface wear when compressing.
- * Superior oxidation stability to effectively extend the oil-change intervals.
- * Desirable foam characteristics to reduce wear due to overflow and interruption of work fluid.
- * HFV-A high vacuum oil keeps pump running at high vacuum degree, with a much longer service life.



用途 Application

- * HFV-A高真空油适用于较为苛刻的工况，在高温、高压强或高负载条件下仍能保持良好真空状态。
- * 可用于国内外各类机械真空泵，如英国Edwards、德国Leybold、法国Alcatel、日本Ulvoil等。
- * Applicable to poor working conditions and keeping good vacuum degree under conditions of high pressure or high loading.
- * Can be applied to various domestic and foreign vacuum pumps such as the British Edwards, German Leybold, French Alcatel and Japanese Ulvoil.

典型数据 Typical data

项目/等级 Item/Grade	HFV-A100	HFV-A200	HFV-A250	试验方法 Method
运动粘度(40°C), mm ² /s Kinematic viscosity	41.4~50.6	61.2~74.8	90~110	GB/T265
粘度指数≥ Viscosity index	110	110	110	GB/T2541
闪点(开口), °C≥ Flash point(open cup)	230	240	250	GB/T3536
倾点, °C ≤ Pour point	-20	-20	-15	GB/T3535
氧化安定性@150°C, min ≥ Oxidation stability	600	600	600	SH/T0193
抗乳化度(40-40-0)ml,min Demulsibility				
54°C ≤	10	10	—	GB/T7305
82°C ≤	—	—	10	
泡沫性(ml/ml) (泡沫倾向/稳定性) Foam characteristic(ml/ml)(Foam tendency/stability)				
24°C ≤	50/0	50/0	50/0	GB/T12579
93.5°C ≤	50/0	50/0	50/0	
后24°C ≤ Later 24°C	50/0	50/0	50/0	
极限压力, kpa Extreme pressure				
分压 ≤ Differential pressure	2.0×10 ⁻⁵	2.0×10 ⁻⁵	2.0×10 ⁻⁵	GB/T6306.2
全压 ≤ Total pressure	2.0×10 ⁻⁴	2.0×10 ⁻⁴	2.0×10 ⁻⁴	

注：极限压力必须用双级双优真空泵作为试验用泵。以上数据为代表性式样的测定结果，产品性能以实测为准。
Note: use double-stage and double-excellent vacuum pump as extreme pressure test pump.

The data above values of typical samples only. Product properties should refer to actual measurement.

包装规格

3.5kg /听、4听/箱、13.5kg /桶、170kg /桶

Package

3.5kg /Canteen、4Canteen /Case、13.5kg /Bucket、170kg /Barrel



HFV-Z 系列

[单级泵专用油] [Single-stage Pump Oil]

产品简介 Product

HFV-Z真空专用油是采用深度精制基础油与高性能合成基础油并加入多种高性能抗氧、抗磨、润滑、防锈、防腐等添加剂进行复配组合，通过特殊调和工艺配制而成。本产品适用于现代新型单级旋片真空泵在广泛工业和科学场合应用，如：熔炉冶金、食品加工 包装、真空镀膜、汽车行业、热成型、真空干燥、 电力行业、医药技术等。

HFV-Z Single-stage Pump Oil is made using deeply refined base oil and high performance synthetic base oil, combined with various high quality additives for oxidation resistance, anti-wear, lubrication, rust prevention and corrosion protection, formulated through a special blending process. Its suitable for use in modern single stage rotary vane vacuum pumps across a wide range of industrial and scientific applications. Such as furnace metallurgy, food packaging, vacuum coating, automotive industry, thermoforming, vacuum drying, electronics industry, pharmaceutical technology and more.



性能 Performance

- ★ 优良的抗氧化安定性，延长油品使用寿命。
- ★ 优良的抗磨性能，减少部件磨损。
- ★ 优良的抗泡性和空气释放性能。
- ★ 低温流动性好，降低了真空泵低温启动时的磨损。
- ★ 优良的油水分离能力，不易乳化。
- ★ Good oxidation resistance, extend the service life of oil.
- ★ Good anti-wear ability, reduce metal parts wear.
- ★ Good anti-foaming and air release properties.
- ★ Good low temperature fluidity, reduce wear during low temperature startup of the vacuum pump.
- ★ Good water separability, not prone to emulsification.

用途 Application

- ★ 广泛适用于制冷、电真空(显像管、灯泡制造)、冷冻干燥、蒸馏、食品行业、生物制药、化工工业中各类机械式真空泵。
- ★ HFV- Z46适用于16L以下单级旋片泵的润滑
- ★ HFV- Z68适用于16L以上至100L以下单级旋片泵的润滑。
- ★ HFV- Z100适用于100L以上单级旋片泵的润滑。
- ★ Use in single-stage rotary vane vacuum pumps for refrigeration, electrical vacuum(cathode ray tube,light bulb manufacturing), freeze drying, distillation, food processing, biopharmaceutical, chemical industry and more.
- ★ HFV-Z46 use in under 16 liters single-stage rotary vane vacuum pump.
- ★ HFV-Z68 use in 16-100 liters single-stage rotary vane vacuum pump.
- ★ HFV-Z100 use in above 100 liters single-stage rotary vane vacuum pump.

典型数据 Typical data

项目/等级 Item/Grade	HFV-Z46	HFV-Z68	HFV-Z100	试验方法 Method
运动粘度(40℃),mm ² /s Kinematic viscosity	41.4~50.6	61.2~74.8	90~110	GB/T265
粘度指数≥ Viscosity index	110	110	110	GB/T1995
闪点(开口),℃ ≥ Flash point (coc)	240	240	250	GB/T3536
倾点,℃ ≤ Pour point	-30	-30	-20	GB/T3535
抗乳化度(40-40-0) ml,min Water separability				
54℃	15	15	-	GB/T7305
82℃	-	-	15	

包装规格 Package

13.5kg /桶, 170kg /桶
13.5kg /Bucket, 170kg /Barrel



HFV-AS 系列

[高真空油] [High Vacuum Pump Oil]

性能 Performance

- ★ HFV-AS高温、高负荷高真空油比A高真空油的使用温度范围更广,粘温性能更好。
- ★ 优异的氧化安定性,热稳定性,在高温状态下能长时间保持高真空运转。
- ★ 良好的泡沫特性,减少由于溢流、断流引起的真空泵磨损。
- ★ HFV-AS高温、高负荷高真空油使泵的使用寿命大大延长,减少换油次数。
- ★ HFV-AS oil has wider temperature range compared to the A.
- ★ Excellent oxidation stability and thermal stability to keep a high vacuum running for a long time at high temperature.
- ★ Desirable foam characteristics to reduce wear due to overflow and interruption of work fluid.
- ★ HFV-AS oil keeps pump running at high vacuum degree,with a much longer service life.



用途 Application

- ★ HFV-AS高温、高负荷高真空油适用于较为苛刻的工况,在高温、高压强或高负载条件下仍能保持良好真空状态。
- ★ 可用于国内外各类机械真空泵,如英国Edwards、德国Leybold、法国Alcatel、日本Ulvoil等。
- ★ Applicable to poor working conditions and keeping good vacuum degree under conditions of high, pressure or high load.
- ★ Can be applied to various domestic and foreign vacuum pumps such as the British Edwards,German Leybold,French Alcatel and Japanese Ulvoil.

典型数据 Typical data

项目/等级 Item/Grade	HFV-A100S	HFV-A200S	HFV-A250S	试验方法 Method
运动粘度(40°C),mm ² /s Kinematic viscosity	41.4~50.6	61.2~74.8	90~110	GB/T265
粘度指数≥ Viscosity index	110	110	110	GB/T2541
闪点(开口), °C≥ Flash point(open cup)	240	250	260	GB/T3536
倾点, °C ≤ Pour point	-20	-20	-15	GB/T3535
氧化安定性@150°C, min ≥ Oxidation stability	1000	1000	1000	SH/T0193
抗乳化度(40-40-0)ml,min Demulsibility				
54°C ≤	15	15	—	GB/T7305
82°C ≤	—	—	15	
泡沫性(ml/ml)(泡沫倾向/稳定性) Foam characteristic(ml/ml)(Foam tendency/stability)				
24°C ≤	50/0	50/0	50/0	GB/T12579
93.5°C ≤	50/0	50/0	50/0	
后24°C ≤ Later 24°C	50/0	50/0	50/0	
极限压力, kpa Extreme pressure				
分压 ≤ Differential pressure	5.0×10 ⁻⁶	5.0×10 ⁻⁶	5.0×10 ⁻⁶	GB/T6306.2
全压 ≤ Total pressure	5.0×10 ⁻⁴	5.0×10 ⁻⁴	5.0×10 ⁻⁴	

注: 极限压力必须用双级双优真空泵作为试验用泵。以上数据为代表性式样的测定结果, 产品性能以实测为准。

Note: use double-stage and double-excellent vacuum pump as extreme pressure test pump.

The data above values of typical samples only. Product properties should refer to actual measurement.

包装规格 3.5kg /听、4听/箱、13.5kg /桶、170kg /桶

Package 3.5kg /Canteen、4Canteen /Case、13.5kg /Bucket、170kg /Barrel



[高真空油] [High Vacuum Pump Oil]

HFV-BS 系列

性能 Performance

- ★ HFV-BS为高温、高负荷、高真空油。
- ★ 极佳的抗磨润滑性能，产品抗磨性能明显提高，能降低泵浦压缩时的界面磨损。
- ★ 良好的泡沫特性，减少由于溢流、断流引起的真空泵磨损。
- ★ HFV-BS高温、高负荷高真空油使真空泵长时间保持高真空运转，极大地减少换油次数，延长泵的使用寿命。
- ★ HFV-BS high vacuum oil belongs to high temperature, high load and high vacuum.
- ★ Excellent anti-wear ability to reduce interface wear when compressing.
- ★ Desirable foam characteristics to reduce wear due to overflow and interruption of work fluid.
- ★ HFV-B high vacuum oil maintain the pump a high vacuum operation in a long time, effectively reducing the number of oil changes, extending the life of the pump.



用途 Application

- ★ HFV-BS高温、高负荷真空泵油适用于较为苛刻的工况，在高温、高压强或高负载条件下仍能保持良好真空状态。
- ★ 可用于国内外各类机械真空泵，如英国Edwards、德国Leybold、法国Alcatel、日本Ulvoil等。
- ★ Applicable to poor working conditions and keeping good vacuum degree under conditions of high, pressure or high load.
- ★ Can be applied to various domestic and foreign vacuum pumps such as the British Edwards, German Leybold, French Alcatel and Japanese Ulvoil.

典型数据 Typical data

项目/等级 Item/Grade	HFV-B100S	HFV-B200S	HFV-B250S	试验方法 Method
运动粘度(40°C), mm ² /s Kinematic viscosity	41.4~50.6	61.2~74.8	90~110	GB/T265
粘度指数≥ Viscosity index	120	120	120	GB/T2541
闪点(开口), °C≥ Flash point(open cup)	230	240	250	GB/T3536
倾点, °C ≤ Pour point	-30	-30	-20	GB/T3535
氧化安定性@150°C, min ≥ Oxidation stability	1500	1500	1500	SH/T0193
抗乳化度(40-40-0)ml,min Demulsibility				
54°C ≤	15	15	—	GB/T7305
82°C ≤	—	—	15	
泡沫性(ml/ml)(泡沫倾向/稳定性) Foam characteristic(ml/ml)(Foam tendency/stability)				
24°C ≤	50/0	50/0	50/0	GB/T12579
93.5°C ≤	50/0	50/0	50/0	
后24°C ≤ Later 24°C	50/0	50/0	50/0	
极限压力, kpa Extreme pressure				
分压 ≤ Differential pressure	5.0×10 ⁻⁵	5.0×10 ⁻⁵	5.0×10 ⁻⁵	GB/T6306.2
全压 ≤ Total pressure	5.0×10 ⁻⁴	5.0×10 ⁻⁴	5.0×10 ⁻⁴	

注：极限压力必须用双级双优真空泵作为试验用泵。以上数据为代表性式样的测定结果，产品性能以实测为准。

Note: use double-stage and double-excellent vacuum pump as extreme pressure test pump.

The data above values of typical samples only. Product properties should refer to actual measurement.

包装规格 3.5kg /听、4听/箱、13.5kg /桶、170kg /桶

Package 3.5kg /Canteen、4Canteen /Case、13.5kg /Bucket、170kg /Barrel



HFV-100SX 系列

[合成专用油] [Synthetic Specialty Oil]

产品简介 Product

HFV-100SX合成专用油是采用全合成基础油通过特殊加工工艺获得低饱和蒸气压的馏分油，再加入多种高性能润滑油添加剂精心配制而成。HFV-100SX合成专用油拥有较高的热稳定性、抗氧化性、抗水性、较好的低温启动性、较高的化学稳定性。适合泵送空气、水蒸汽、惰性化学气体。

HFV-100SX Synthetic Special Oil is formulated with a low-saturation vapor pressure fraction oil obtained by processing fully synthetic base oil through specialized techniques, combined with multiple high-performance lubricant additives.

This synthetic specialty oil exhibits excellent thermal stability, oxidation resistance, water resistance, favorable cold-start performance, and high chemical stability. It is suitable for pumping air, water vapor, and inert chemical gases.



性能 Performance

- ★ 较高的热稳定性，抗氧化性。在高温环境下油品不易发生裂解产生油泥。
- ★ 优秀的抗水性，很好的油水分离性，即使长时间浸泡在水里油品也不易乳化。
- ★ 较低的倾点和好的低温流动性，在低温环境下也可轻松启动。
- ★ 较高的化学稳定性，可以保持自身良好的化学惰性。
- ★ Excellent thermal stability and oxidation resistance. The oil is less prone to cracking and sludge formation under high-temperature conditions.
- ★ Superior water resistance with exceptional oil-water separation. The oil resists emulsification even during prolonged water exposure.
- Low pour point and excellent low-temperature fluidity. Ensures easy starting in cold environments.
- High chemical stability, maintaining its inherent chemical inertness.

用途 Application

- ★ 可用于螺杆泵、罗茨泵的润滑、密封、冷却。适用于抽除空气、水蒸汽、惰性化学气体。
- ★ Suitable for lubricating, sealing, and cooling screw pumps and Roots pumps. Effective in handling air, water vapor, and inert chemical gases.

典型数据 Typical data

项目/等级 Item/Grade	合成专用油 HFV-100SX	试验方法 Experimental Method
外观 Appearance	黄色透明 Yellow transparent	目测 Eyeballing
运动粘度 (40°C), mm ² /s Kinematic Viscosity	80~100	GB/T265
粘度指数 (VI) Viscosity Index	80	GB/T2541
闪点 (开口), °C ≥ Dropping point	250	GB/T3536
倾点, °C ≤ Saturated Vapor Pressure	-30	GB/T3535
抗乳化度 (40-40-0) ml, min Demulsibility		
54 °C	-	
82 °C	15	GB/T7305
极限真空 @100°C, kpa Ultimate Vacuum	2.0×10 ⁻³	GB/T6306.2

注：极限压力必须用双级双优真空泵作为试验用泵。
以上数据为代表性式样的测定结果，产品性能以实测为准。

Note: The ultimate pressure must be tested using a two-stage high-performance Roots pump.
The data above values of typical samples only. Product properties should refer to actual measurement.

包装规格 Package

13.5kg/桶、170kg/桶
13.5kg/Bucket、5kg/Barrel

[合成真空泵油] [Synthetic Vacuum Pump Oil]

HFV-S 系列

性能 Performance

- * HFV-S合成真空泵油是专为严苛条件工况真空泵设计的高性能产品。
- * 可以胜任于低温-40°C到高温150°C的广泛温度范围和复杂应用环境。
- * 可用于单级、双级旋片真空泵，也可用于螺杆、罗茨真空泵。光伏、制药、化工、镀膜等行业应用。
- * 优异的氧化安定性，热稳定性，在高温状态下能长期运转。
- * 优异的抗磨润滑性能和清净分散性能，使泵保持长期低摩擦运转。
- * HFV-S高温、高负荷机械泵油使泵的使用寿命大大延长，减少换油次数。
- * HFV-S synthetic vacuum pump oil is designed for high performance vacuum pumps under harsh conditions.
- * It is suitable for a wide temperature range from low temperature -40°C to high temperature 150°C and complex application environment.
- * Not only can be used for single stage, double stage rotary vane vacuum pump, but also can be used for screw, Roots vacuum pump. It is used in photovoltaic, pharmaceutical, chemical, coating and other industries.
- * Excellent oxidation stability and thermal stability to keep a long time running at high temperatures.
- * Excellent lubricity and clean dispersion properties, which can maintain a long-term low-friction operation.
- * HFV-S series of high temperature, high load pump oil can greatly extend the life of the pump, reduce the number of oil changes.



用途 Application

- * HFV-S高温、高负荷真空泵油适用于较为苛刻的工况，在高温、高压强或高负载条件下仍能保持良好真空状态。
- * 可用于国内外各类机械真空泵，如英国Edwards、德国Leybold、法国Alcatel、日本Ulvoil等。
- * Applicable to poor working conditions and keeping good vacuum degree under conditions of high, pressure or high load.
- * Can be applied to various domestic and foreign vacuum pumps such as the British Edwards, German Leybold, French Alcatel and Japanese Ulvoil.

典型数据 Typical data

项目/等级 Item/Grade	HFV-S100	HFV-S200	HFV-S250	试验方法 Method
运动粘度(40°C), mm ² /s Kinematic viscosity	41.4~50.6	61.2~74.8	90~110	GB/T265
粘度指数≥ Viscosity index	145	145	145	GB/T2541
闪点(开口), °C≥ Flash point(open cup)	240	250	260	GB/T3536
倾点, °C ≤ Pour point	-50	-50	-40	GB/T3535
氧化安定性@150°C, min ≥ Oxidation stability	1000	1000	1000	SH/T0193
抗乳化度(40-40-0)ml,min Demulsibility				
54°C ≤	15	15	—	GB/T7305
82°C ≤	—	—	15	
泡沫性(ml/ml)(泡沫倾向/稳定性) Foam characteristic(ml/ml)(Foam tendency/stability)				
24°C ≤	50/0	50/0	50/0	GB/T12579
93.5°C ≤	50/0	50/0	50/0	
后24°C ≤ Later 24°C	50/0	50/0	50/0	
极限压力, kpa Extreme pressure				
分压 ≤ Differential pressure	5.0×10 ⁻⁵	5.0×10 ⁻⁵	5.0×10 ⁻⁵	GB/T6306.2
全压 ≤ Total pressure	5.0×10 ⁻⁴	5.0×10 ⁻⁴	5.0×10 ⁻⁴	

注：极限压力必须用双级双优真空泵作为试验用泵。以上数据为代表性式样的测定结果，产品性能以实测为准。

Note: use double-stage and double-excellent vacuum pump as extreme pressure test pump.

The data above values of typical samples only. Product properties should refer to actual measurement.

包装规格 3.5kg /听、4听/箱、13.5kg /桶、170kg /桶

Package 3.5kg /Canteen、4Canteen /Case、13.5kg /Bucket、170kg /Barrel



HFV-K 系列

[扩散泵油] [Diffusion Pump Oil]

性能 Performance

- ★ 较低的饱和蒸汽压, 馏程窄, 分子量大, 抽速大。
- ★ 当油加热到沸腾状态下油将以超音速喷射并能较快达到真空目的。
- ★ 化学组成合理, 具有良好的氧化安定性和热安定性。
- ★ HFV-K返油率较低, 油蒸汽遇到冷壁后能迅速冷凝成新的工作液。
- ★ Low saturated vapor pressure,narrow distillation range,high molecular weight and pumping speed.
- ★ When heated to its boiling point,the oil will eject in supersonic speed to create a vacuum environment rapidly.
- ★ Reasonable chemical compositions, perfect oxidation and thermal stability.
- ★ Low back-streaming rate,oil vapor will condense into new fluid as soon as it touches cold wall.



用途 Application

- ★ HFV-K扩散泵油主要用于蒸汽流油扩散泵, 并根据到达压力的要求可选择不同分子量的扩散泵油。
- ★ 适用于真空蒸馏、真空冶炼、真空镀膜、真空熔炉等等。
- ★ 可作为电子、航天、核工业等行业所用扩散泵的工作液。
- ★ Suitable for vapor diffusion pumps,it is available according to the final pressure only.
- ★ Applicable to vacuum distillation,vacuum metallurgy,vacuum coating, vacuum furnace, and etc.
- ★ Also be used as working fluid of diffusion pump in industries,such as electronics, aeronautics, nuclear and etc.

典型数据 Typical data

项目/等级 Item/Grade	品名 Item name		
	HFV-K3	HFV-K4	HFV-SK
粘度等级 (GB3141) Kinematic viscosity(GB3141)	46	46	80
运动粘度 (40°C), mm ² /s Kinematic viscosity	41.4~50.6	41.4~50.6	75~85
闪点(开口), °C≥ Flash point(open cup)	250	260	250
倾点, °C ≤ Pour point	-20	-20	-15
饱和蒸汽压, kpa 25°C ≤ Saturation Vapor Pressure	报告 Report	报告 Report	报告 Report
极限压力, kpa ≤ Extreme pressure	5.0×10 ⁻⁶	3.0×10 ⁻⁶	3.0×10 ⁻⁶
外观 Appearance	透明液体 Transparent liquid	透明液体 Transparent liquid	透明液体 Transparent liquid

注: 以上数据为代表性式样的测定结果, 产品性能以实测为准。
Note: The data above values of typical samples only. Product properties should refer to actual measurement.

包装规格 3.5kg /听、4听/箱
Package 3.5 kg /Canteen、4 Canteen /Case

[超高真空扩散泵硅油] [Ultra High Vacuum Diffusion Pump Silicone Oil]

HFV-KS 系列

性能 Performance

- ★ 饱和蒸汽压在常温下极低，极限真空度可达 1×10^{-6} kpa。
- ★ 优良的热安定性、耐高温，在经常处于 200°C 的工作温度和金属催化作用下不易氧化。
- ★ 在抽气速率和返流率方面显示出良好的性能。
- ★ 较矿物油型扩散泵油具有极佳的氧化安定性，在与大气接触时不易氧化。
- ★ 能够抗磁场放射线的辐射并具有难燃性。
- ★ Extremely low saturated vapor pressure at room temperatures and limited vacuum reaches 1×10^{-6} kpa.
- ★ Excellent thermal stability and high temperature resistance so that it has the ability to keep oxidization stability under 200°C with metal catalyst.
- ★ Good performance regarding pumping speed and refluxing rate.
- ★ Better oxidation stability than that of the mineral oil if exposed to the air.
- ★ Radiation resistance and low inflammability.



用途 Application

- ★ HFV-KS扩散泵硅油可以在电子、冶金、仪表等行业用作超高真空扩散泵油。
- ★ 可作为高温热载体以及仪表中的传递液。
- ★ 可作为电子、航天、核工业等行业要求超高扩散泵工作液。
- ★ Can be used as ultrahigh vacuum diffusion pump oil in electronic, metallurgical and instrument industries.
- ★ Used as carrier fluid for heat carrier or instrument.
- ★ Used as working fluid of diffusion pump with requirements in the electronics, aeronautics and nuclear industry.

典型数据 Typical data

项目/等级 Item/Grade	274超高真空扩散泵硅油	275超高真空扩散泵硅油	试验方法 Method
运动粘度(25 $^{\circ}\text{C}$),mm ² /s Kinematic viscosity	38~42	165~185	GB/T265
折光指数25 $^{\circ}\text{C}$ Refractive Index	1.550~1.560	1.5765~1.5787	GB/T614
比重d ₂₀ ²⁵ Spcoifio Gravity	1.060~1.070	1.090~1.100	GB/T1884
闪点(开口), $^{\circ}\text{C}$ Flash point(open cup)	210	243	GB/T3536
饱和蒸汽压, kpa 25 $^{\circ}\text{C}$ Saturation Vapor Pressure	5.0×10^{-9}	5.0×10^{-9}	SH/T0293
极限真空度, kpa Limiting vacuum	1.0×10^{-6}	5.0×10^{-6}	SH/T0294

注：以上数据为代表性式样的测定结果，产品性能以实测为准。

Note: The data above values of typical samples only. Product properties should refer to actual measurement.

包装规格 1kg /听、12听/箱

Package 1kg/Canteen、124Canteen /Case

HFV-FS 系列

[分子泵油] [Molecular Pump Oil]

性能 Performance

- ★ 良好的高低温性能，在环境温度差异较大的地区尤为适用。
- ★ 优良的热稳定性和极佳的润滑摩擦性能。
- ★ 良好的氧化安定性和化学稳定性，在连续的高温下操作时真空度不易下跌。
- ★ 在长期高温摩擦状态下能保持良好的使用性能。
- ★ Good high-and-low temperature characteristic, especially suitable for areas of large temperature variation.
- ★ Excellent thermal stability and lubrication friction performance.
- ★ Good oxidation and chemical stability to keep the stabilization of vacuum degree under continuous high temperature.
- ★ Long-term service performance under the condition of high temperature and wear.

用途 Application

- ★ 适用于各类高速分子泵的润滑和密封。
- ★ Suitable for the lubrication and sealing of various high speed molecular pumps.



典型数据 Typical data

项目/等级 Item/Grade	22分子泵油 HFV-FS22	试验方法 Method
运动粘度(40℃), mm ² /s Kinematic viscosity	19.8~24.2	GBT265
粘度指数 ≥ Viscosity index	120	GB/T2541
闪点(开口), °C ≥ Flash point(open cup)	235	GB/T3536
倾点, °C ≤ Pour point	-40	GB/T3535
极限压力, kpa ≤ Extreme pressure	5.0×10 ⁸	GB/T6306.2

注：以上数据为代表性式样的测定结果，产品性能以实测为准。

Note: The data above values of typical samples only. Product properties should refer to actual measurement.

包装规格 1升/听、12听/箱

Package 1L/Canteen、12Canteens /Box

[高低温真空泵油] [Screw High and Low Temperature Vacuum Pump Oil]

HFV-WS 系列

性能 Performance

- ★ HFV-WS系列高低温真空泵油化学组成合理,性质稳定,可使用于特殊气体中。
- ★ 在极限压强,返油率,抽气速率等真空特性方面与硅油、酯类油有相似的特性,剩余气体不易形成不溶性的绝缘膜影响真空元件。
- ★ 良好的氧化安定性,能够降低自垢和结焦的产生,减少真空泵的更换次数,节约生产成本。
- ★ Reasonable chemical composition,stable properties,particularly for special gas.
- ★ Properties of ultimate pressure,back stream rate and pumping rate are similar to silicon oil and ester oil.It is hard for residual gas to produce insolubility insulation film that will have effect on vacuum units.
- ★ Good oxidation stability,inhibition of oil dirt and coking,extending the oil-change intervals and saving costs.



用途 Application

- ★ HFV-WS系列高低温真空泵油适用于国内外各类机械真空泵。
- ★ 适用于温度范围较宽的场所: -40℃~100℃。
- ★ 本产品可用于特殊气体中,如氮、氨、氢、氦、氩、二氧化碳、二氧化硫、硫化氢等。
- ★ Applicable to various domestic and foreign mechanical vacuum pumps.
- ★ Applicable to wide temperature range from-40 °C to 100 °C.
- ★ Can be applied to special gases such as N2, NH3, N3, Ne,Ar, CO2, SO2, H2S,etc.

典型数据 Typical data

项目/等级 Item/Grade	WS32 HFV-WS32	WS46 HFV-WS46	WS68 HFV-WS68	试验方法 Method
运动粘度(40℃),mm ² /s Kinematic viscosity	28.8~35.2	41.4~50.6	61.2~74.8	GB/T265
闪点(开口),℃≥ Flash point(open cup)	180	200	220	GB/T3536
倾点,℃≤ Pour point	-50	-50	-50	GB/T3535
极限压力, kpa Extreme pressure				
分压≤ Differential pressur	5.0×10 ⁻⁵	5.0×10 ⁻⁵	5.0×10 ⁻⁵	GB/T6306.2
全压≤ Total pressure	5.0×10 ⁻⁴	5.0×10 ⁻⁴	5.0×10 ⁻⁴	

注: 以上数据为代表性式样的测定结果,产品性能以实测为准。

Note: The data above values of typical samples only. Product properties should refer to actual measurement.

包装规格 1升/听、12听/箱

Package 1L/Canteen、12Canteens /Box



HFV-ZS 系列

[环保型真空泵油] [ECO-friendly Vacuum Pump Oil]

性能 Performance

- ★ HFV-ZS环保型真空泵油具有粘度指数高，闪点高的特点。
- ★ 能与R113、R502、R22、R1426、R134a、R404a等制冷剂100%相溶。
- ★ 具有优良的氧化安定性和热安定性，大大提高了油品的使用寿命。
- ★ 属于绿色环保产品，生物降解能力大于95%。
- ★ High viscosity index and high flash point.
- ★ 100% compatibility with refrigerants such as R113,R502,R22,R1426,R134a and R404a.
- ★ Excellent oxidation and thermal stability to effectively extend product service lifetime.
- ★ Environment-friendly green product with more than 95% of biological degradability.



用途 Application

- ★ HFV-ZS环保型真空泵油适用于以CFC、HCFC和HFC等各类冷媒体的压缩机。
- ★ 适于抽气用的直联式旋片真空泵使用。
- ★ Applicable to compressors using CFC,HCFC and HFC as cooling medium..
- ★ Applicable to directional vane rotary vacuum pumps for outgassing.

典型数据 Typical data

项目/等级 Item/Grade	46环保型真空泵油 HFV-ZS46	68环保型真空泵油 HFV-ZS68	试验方法 Method
运动粘度(40℃),mm ² /s Kinematic viscosity	41.4~50.6	61.2~74.8	GB/T265
粘度指数 ≥ Viscosity index	130	130	GB/T2541
闪点(开口),℃ ≥ Flash point(open cup)	240	250	GB/T3536
倾点,℃ ≤ Pour point	-35	-35	GB/T3535
泡沫性(ml/ml)(泡沫倾向/稳定性) Foam characteristic(ml/ml)(Foam tendency/stability)			
24℃ ≤	100/0	100/0	GB/T12579
93.5℃ ≤	75/0	75/0	
后24℃ ≤	100/0	100/0	

注：以上数据为代表性式样的测定结果，产品性能以实测为准。

Note: The data above values of typical samples only. Product properties should refer to actual measurement.

包装规格 Package

1升/听、12听/箱
1L/Canteen、12Canteens /Box



[食品级真空密封油] [Food Grade Vacuum Sealed Oil]

HFV 系列

产品简介 Product

- ★ HFV食品级真空密封油是一款专门为食品应用真空泵研制并通过美国全国卫生NSF安全机构认证H1标准的，允许可用于食品接触的真空密封油。本产品选用食品级基础油并加入多种食品级无毒高性能添加剂精心调制而成。
- ★ 该产品为NSF注册目录H1认可润滑油，可用于与食品容易接触使用的场合。
- ★ 配方采用符合1998年美国食品药品监督管理局（FDA）法规21 CFR178.3570法规规定的组分。
- ★ HDM Food Grade Vacuum Sealed Oil is a specially developed vacuum pump for food applications ,and through H1 standard of NSF Agency certification , allowing vacuum sealed oil to be used for food contact. Using quality food-grade base oil and various food-grade non-toxic high-performance additives such as carefully blended into.
- ★ This product is an NSF registered H1 lubricant, suitable for use in applications where incidental contact with food may occur. The formulation contains components that comply with the regulations set forth in 21 CFR 178.3570 of the United States Food and Drug Administration (FDA) 1998.

性能 Performance

- ★ 具有出色的真空极限压力、出色的润滑性能、出色的抗氧化性能、很好耐高低温性能、很好抗乳化性能。
- ★ 即使偶尔和食品接触，不会污染食品，仍可以确保食品的卫生安全。
- ★ Excellent ultimate vacuum,lubricating properties,oxidation stability,resistance to high and low temperature,Strong emulsification resistance.
- ★ Occasionally contact with food, not contaminating food and ensuring food safety.

用途 Application

- ★ 本产品可应用于食品饮料、酿酒、肉类、家禽加工、奶制品、烘焙食品、宠物食品、制糖、食品包装、医药、粮食加工、水产、烟草、自来水厂等可能与食品发生接触的真空泵。
- ★ This product can be used in food and beverage, wine, meat, poultry processing, dairy products, baked goods, pet food, sugar, food packaging, medicine, food processing, aquatic products, tobacco, water plants and other food which may contact with the vacuum pump.

典型数据 Typical data

检测项目 Item	32食品级真空密封油 HFV-32	46食品级真空密封油 HFV-46	68食品级真空密封油 HFV-68	100食品级真空密封油 HFV-100	检测方法 Method
外观 Appearance	无色透明 B&C	无色透明 B&C	无色透明 B&C	无色透明 B&C	目测 Visual
运动粘度40℃ Kinematic Viscosity	28.8~35.2	41.4~50.6	61.2~74.8	90~110	GB/T265
运动粘度100℃ Kinematic Viscosity	4.5~5.5	6.3~7.7	7.2~8.8	9.5~12	GB/T265
粘度指数≥ Viscosity Index	110	110	110	110	GB/T2541
密度@15℃ Density	0.835~0.855	0.845~0.865	0.855~0.875	0.865~0.880	GB/T1885
总酸值(mg/g)≤ Total Acid Number	0.05	0.05	0.05	0.05	GB/T4945
闪点,℃ ≥ Flash Point	200	220	240	250	GB/T3536
倾点,℃ ≤ Pour Point	-20	-20	-20	-20	GB/T3535
抗乳化@54,℃≤ Demulsibility	10	10	10	10	GB/T7305
色号 Color	2	2	2	2	GB/T6540
水分 % Water	无 /	无 /	无 /	无 /	GB/T260
极限压力(Kpa)≤ Ultimate Vacuum	5.0×10 ⁻⁴	5.0×10 ⁻⁴	5.0×10 ⁻⁴	5.0×10 ⁻⁴	GB/T19956.2

健康与安全 Health and Safety

- ★ 根据现有资料显示，本产品使用过程中不会对人体健康产生不良影响，但在使用过程中需遵循物料安全资料表（MSDS）上所提供指引。有关物料安全资料表可向当地销售部门或获取。除指定的用途外，该产品不应用于其他用途。如需处理用过的产品，注意保护环境。
- ★ Based on available information, this product is not expected to produce adverse effects on health when used for the intended application, following the recommendations provided in Material Safety Data Sheet (MSDS). MSDS are available upon request through your sales office. This product should not be used for purposes other than intended use. If disposing of used product , take care to protect the environment.

HFV-Z 系列

[增压泵油] [Series Booster Oil]

性能 Performance

- * 极低的饱和蒸汽压, 较大的抽气速率和适中极限压力。
- * 良好的氧化安定性和化学稳定性, 在连续的高温下操作时真空度不易下跌。
- * 优良的润滑性能和流动性能。
- * Extremely low saturated vapor pressure, high pumping rate and moderate ultimate pressure.
- * Good oxidation and chemical stability to keep stabilization of vacuum degree under
- * continuous high temperature.
- Excellent lubricity and fluid ability



用途 Application

- * HFV-Z22适用于抽速快的蒸汽流油增压泵,
- * HFV-Z32、46适用于极限真空要求高的油增压泵。
- * 适用于真空冶炼、塑料连续电镀金属、真空蒸馏及低密度风洞装置等的抽气设备。
- * 为充分发挥其真空性能, 须在最佳加热功率下使用。
- * HFV-Z22 for vapor booster pump of large pumping rate.
- * HFV-Z32, 46 for oil booster pump with the high requirement of ultimate vacuum.
- * Applicable to extraction equipment, such as vacuum metallurgy, plastic coated metal, distillation and low density wind tunnel equipment.
- * The product is strongly recommended to be used under the optimum heat power.

典型数据 Typical data

项目/等级 Item/Grade	HFV-Z22	HFV-Z32	HFV-Z46	试验方法 Method
运动粘度(40°C), mm ² /s Kinematic viscosity	19.8~24.2	28.8~35.2	41.4~50.6	GB/T265
闪点(开口), °C ≥ Flash point(open cup)	180	200	220	GB/T3536
倾点, °C ≤ Pour point	-10	-10	-10	GB/T3535
腐蚀试验(铜片, 100°C, 3h) 级 ≤ Corrosion Test(T2 Cooper, 100°C, 3h)	1a	1a	1a	GB/T5096
抗乳化度(40-40-0)ml, min Demulsibility				
54°C ≤	10	10	10	GB/T7305
泡沫性(ml/ml) (泡沫倾向/稳定性) Foam characteristic(ml/ml)(Foam tendency/stability)				
24°C ≤	100/0	100/0	100/0	GB/T12579
93.5°C ≤	100/0	100/0	100/0	
后24°C ≤ Later 24°C	100/0	100/0	100/0	
极限压力, kpa Extreme pressure	5.0×10 ⁻⁵	5.0×10 ⁻⁵	5.0×10 ⁻⁵	GB/T6306.2

注: 以上数据为代表性式样的测定结果, 产品性能以实测为准。

Note: The data above values of typical samples only. Product properties should refer to actual measurement.

包装规格 13.5kg /桶、170kg /桶

Package 13.5kg /Bucket、170kg /Barrel

[真空淬火油] [Vacuum Quenching Oil]

HFV-CZ系列

性能 Performance

- ★ 较低的饱和蒸汽压, 蒸发量较小, 使溶入的气体迅速脱出。
- ★ 较强的抗汽化能力和较快的冷却速度, 不污染真空炉膛及真空操作效果。
- ★ 冷却性能稳定, 在真空条件下, 能保证淬火后工件淬硬效果好。
- ★ 良好的光亮性, 淬火后表面清洁光亮, 不会变色, 无氧化, 无污染。
- ★ 极佳的挥发安定性和氧化安定性, 使用寿命长。
- ★ Low saturation vapor pressure, small evaporation and rapid degassing.
- ★ Good anti-gasification ability and high cooling rate with no pollution to vacuum furnace and keep a good operation effect.
- ★ Stable cooling characteristic to ensure hardened property of workpiece after quenching.
- ★ Desirable bright characteristics, good surface finish with no oxidation, pollution or color change after quenching.
- ★ Excellent volatility and oxidation stability to keep a long service life.



用途 Application

- ★ 适用于轴承, 工模具, 刀具及大中型航空结构钢及其它特种钢材。
- ★ HFV-CZ0真空淬火油用于淬透性差材料在真空状态下的淬火。
- ★ HFV-CZ1真空淬火油用于中型材料在真空状态下的淬火。
- ★ HFV-CZ2真空淬火油用于淬透性好的材料在真空状态下的淬火。
- ★ Applicable to bearings, tools and dies, cutters, aviation structural steel and other special steel products.
- ★ HFV-CZ0 can be used to materials with poor quenching property if vacuum quenching.
- ★ HFV-CZ1 can be used middle-size materials if vacuum quenching.
- ★ HFV-CZ2 can be used to materials with good quenching property if vacuum quenching.

典型数据 Typical data

项目/等级 Item/Grade	CZ0真空淬火油 HFV-CZ0	CZ1真空淬火油 HFV-CZ1	CZ2真空淬火油 HFV-CZ2	试验方法 Experimental Method
运动粘度(40℃), mm ² /s Kinematic viscosity	15~25	30~40	80~90	GB/T265
闪点(开口), °C≥ Flash point(open cup)	180	200	220	GB/T3536
燃点, °C ≥ Ignition point	210	230	250	GB/T3536
倾点, °C ≤ Pour point	-10	-10	-10	GB/T3535
腐蚀试验(铜片, 100℃, 3h) ≤ Corrosion test (cooper, 100℃, 3h)	1	1	1	GB/T5096
热氧化安定性 Heat oxidation stability				
粘度比 ≤ Viscosity ratio	1.5	1.5	1.5	SH/T0219
残炭增加值, % ≤ Carbon residual increase value	1.5	1.5	1.5	
饱和蒸汽压(20℃), kpa ≤ Saturated vapor pressure	6.7×10 ⁻⁶	6.7×10 ⁻⁶	6.7×10 ⁻⁶	SH/T0293
冷却特性 Cooling Characteristic				
特性温度 Characteristic Temperature	600	600	585	SH/T0220
800~400℃时间 Quenching time from(800~400)℃	3.5	5.5	7.5	

注: 以上数据为代表性式样的测定结果, 产品性能以实测为准。

Note: The data above values of typical samples only. Product properties should refer to actual measurement.

包装规格 170kg /桶
Package 170kg /Barrel

HFV 系列

[螺杆真空泵油] [Screw vacuum pump oil]

性能 Performance

- ★ 优异的润滑性，能提供出色的润滑性，以减少螺杆泵运动部件磨损，延长设备寿命。
- ★ 优异抗氧化性和热稳定性，可以在高温和长时间运行条件下保质油品稳定，不易生成油泥或氧化物。
- ★ 优异抗乳化性，能有效将进入油中的水分分离出来，避免油水乳化，保持油品的清洁和稳定性。
- ★ 良好的耐腐蚀性，以防止螺杆泵内金属部件被腐蚀。
- ★ 较低的挥发性，以减少油耗对环境的污染。
- ★ 高粘度指数，适当的粘度和高粘度指数，使得油品在不同温度下仍然保持良好的密封性和润滑性。
- ★ Excellent lubricity, it can provide excellent lubrication to reduce wear of moving parts of screw pumps and extend equipment life.
- ★ Excellent anti-oxidation property and thermal stability, can maintain oil stability under high temperature and long-term operating conditions, and is not prone to the formation of sludge or oxides.
- ★ Excellent demulsibility, which can effectively separate the water entering the oil, avoid oil-water emulsification, and maintain the cleanliness and stability of the oil.
- ★ Good corrosion resistance to prevent metal parts inside the screw pump from being corroded.
- ★ Lower volatility to reduce fuel consumption and environmental pollution.
- ★ High viscosity index, appropriate viscosity and high viscosity index enable the oil to maintain good sealing and lubrication at different temperatures.



用途 Application

- ★ 适用于化工、制药、光伏、食品、电子、航空航天、金属冶炼、医药和实验室的螺杆真空泵的润滑、密封、冷却。
- ★ Suitable for lubrication, sealing, and cooling of screw vacuum pumps in chemical, pharmaceutical, photovoltaic, food, electronics, aerospace, metal smelting, pharmaceutical, and laboratory industries.

典型数据 Typical data

项目/等级 Item/Grade	螺杆真空泵油 Screw vacuum pump oil			试验方法 Method
	HFV-46	HFV-68	HFV-100	
运动粘度 (40℃), mm ² /s Kinematic viscosity	41.4-50.6	61.2-74.8	90~110	GB/T265
粘度指数 ≥ Viscosity index	140	140	140	GB/T2541
闪点 (开口), °C ≥ Flash point(open cup)	240	250	260	GB/T267
倾点, °C ≤ Pour point	-30	-30	-30	GB/T3535
抗乳化度 (40-37-3) ml,min Demulsibility(40-37-3) ml,min				
54°C ≤	10	10	—	GB/T7305
82°C ≤	—	—	15	
泡沫性 (ml/ml) (泡沫倾向/稳定性) Foam characteristic(ml/ml) (Foam tendency/stability)				
24°C ≤	50/0	50/0	50/0	GB/T12579
93.5°C ≤	50/0	50/0	50/0	
后24°C ≤ Later24°C	50/0	50/0	50/0	
极限压力, kpa @100°C ≤ Extreme pressure	5.0×10 ⁻³	5.0×10 ⁻³	5.0×10 ⁻³	GB/T6306.2

注：以上数据为代表性式样的测定结果，产品性能以实测为准。

The data above values of typical samples only. Product properties should refer to actual measurement.

包装规格 3.5kg /听、4听/箱、13.5kg /桶、170kg /桶

Package 3.5kg /Canteen、4Canteen /Case、13.5kg /Bucket、170kg /Barrel

[全氟聚醚真空泵油] [Series PFPE Vacuum Pump Oil]

HFV-F 系列

产品简介 Product

HFV-F系列全氟聚醚(PFPE)合成材料为基础,专门为高真空环境而设计的全氟聚醚真空泵油。全氟聚醚真空泵油具有稳定的饱和分子链,不含碳元素和氢元素,化学性能非常稳定。具有很强的抗氧化性能,与氧不相容,不可燃,耐强酸、强碱、强辐射等化学物质。耐高温性能稳定,并具有极低的蒸发损失和良好的润滑性能。不仅使用寿命长,且使用安全。

HFV-F series is base on PFPE synthetic material, specifically designed for high vacuum environments. PFPE vacuum pump oil features stable, saturated molecular chains and free from carbon and hydrogen elements. Extremely stable of chemical properties. It boasts strong oxidation resistance, incompatible with oxygen, non-flammable, resistant to strong acids, strong bases and strong radiation. It maintains stability at high temperatures, exhibits very low evaporation loss and possesses excellent lubricity. Not only have a long service life but also safety to use.



性能 Performance

- ★ 低饱和蒸气压;很好的化学惰性;很高的热稳定性;很好的润滑性;很好的抗磨损性。
- ★ 无闪点、无燃点;安全无毒;与金属、塑料、弹性体有很好的兼容性。
- ★ 优良的耐水性;低的表面张力;很好的辐射稳定性。
- ★ Low vapor pressure; Good chemical inertness; High thermal stability; Good lubricity; Good anti-wear ability.
- ★ No flash point, no fire point; Safety no toxicity; Excellent compatibility with metals, plastics, elastomers.
- ★ Good anti-aqueous solvent resistance; Low surface tension; Good radiation stability.

用途 Application

- ★ HFV-F系列全氟聚醚真空泵油应用于半导体、光伏、航空航天、空间研究、化工、制药、显示器制造等领域。
- ★ HFV-F series PFPE vacuum pump oil application use in semiconductor, solar system, aerospace, space research, chemicals, pharmaceutical, monitor manufacture and vacuum area.

选型 Lectotype

适用真空泵Application	06/6	14/6	16/6	25/6
旋片泵Rotary pumps	√	√		√
罗茨泵Roots pumps			√	√
螺杆泵Screw pumps			√	√
分子泵Turbomolecular pumps	√			

典型数据 Typical data

测试项目 Test item	HFV-F06/6	HFV-F14/6	HFV-F16/6	HFV-F25/6
平均分子量 amu Average molecular weight	1800	2500	2700	3300
密度@20°C g/cm ³ Density	1.88	1.89	1.89	1.90
运动粘度@20°C cst Kinematic viscosity	64	148	168	276
粘度指数 Viscosity index	71	97	110	110
饱和蒸气压 Torr Vapor pressure				
@25°C	8×10 ⁻⁷	1×10 ⁻⁷	2×10 ⁻⁶	6×10 ⁻⁶
@100°C	8×10 ⁻³	2×10 ⁻⁴	2×10 ⁻⁴	6×10 ⁻⁵
倾点 °C Pour point	-50	-45	-45	-33
表面张力 Dyne/cm Surface tension	21	22	22	22
蒸发损失 % wt Evaporation loss 22hrs 06/6@120°C 14/6 16/6 25/6 25/6M@149°C	2.8	2.6	3.9	6.0

储存与保质期 Storage and warranty

室内存放,要求避光、干燥处,产品未开封情况下保质期为3-5年。
Indoor storage, require avoid light and dry place. Situation in not open, warranty 3-5 years.

包装规格 Package

1kg /桶, 5kg /桶
1kg /Bucket, 5kg /Bucket



HFV-7501系列 [高真空密封硅脂] [High Vacuum Silicone Sealing Grease]

性能 Performance

- ★ 较好的高低温性能。
- ★ 较好的氧化安定性和化学稳定性。
- ★ 耐水密封性能、抗溶剂性能及电性能较好。
- ★ 适宜的分子量分布，保证系统的真空度。
- ★ Good high and low temperature property.
- ★ Perfect oxidation and chemical stability.
- ★ Highly resistant to water and solvents and desirable electrical properties.
- ★ Optimum molecular weight distribution for the vacuum degree of the system.



用途 Application

- ★ 使用温度范围-40℃~200℃。
- ★ 保持真空系统的真空达 6.0×10^{-7} kpa，也适用于橡胶与金属间的密封。
- ★ 适用于玻璃转动活塞与磨口接头处在有化学介质存在条件下的润滑和密封。
- ★ Applicable to temperature ranges from -40℃~200℃.
- ★ Suitable for rubber-to-metal sealing when vacuum degree reaches 6.0×10^{-7} kpa.
- ★ Applicable to lubricating and sealing between glass piston and its ground joint when chemical medium exists.

典型数据 Typical data

项目/等级 Item/Grade	7501高真空密封硅脂 HFV-7501	试验方法 Experimental Method
外观 Appearance	白色半透明 Translucent and white	目测 Eyeballing
锥入度, 0.1mm (150g, 25) Cone Penetration	265	GB/T269
腐蚀试验 (T2铜片, 100℃, 3h) Corrosion Test (T2 Cooper, 100℃, 3h)	合格 Qualified	GB/T7326
滴点, °C Dropping point	300	GB/T3498
饱和蒸汽压kpa, 60℃ Saturated Vapor Pressure	6.0×10^{-7}	GB/T0293
分子量 Molecular Weight	1000	SH/T0220附录B SH/T0220 Appendix B

注：以上数据为代表性式样的测定结果，产品性能以实测为准。

Note: The data above values of typical samples only. Product properties should refer to actual measurement.

包装规格 50克/盒、120盒/箱

Package 50g/Bottle、120bottles/Box

[真空密封脂] [Vacuum Sealing Grease]

HFGN-V4 系列

性能 Performance

- * 密封性好, 适用于多种需要密封的应用场合。
- * 室温下化学性质稳定, 可长期使用。
- * Good sealing property, suitable for a variety of applications require sealing condition.
- * Chemical characteristics is very stable at room temperature, can be used for a long time.



用途 Application

- * 适用于高度真空系统的润滑与密封, 如: 玻璃活塞及磨口、金属接头等。
- * Applicable to lubricating and sealing of high vacuum systems, such as: glass piston and glass ground, metal joints, etc.

典型数据 Typical data

项目/等级 Item/Grade	HFGN-V4	试验方法 Experimental Method
外观 Appearance	均匀油膏 Uniform ointment	目测 Eyeballing
锥入度, 0.1mm (25°C) Tiny Cone Penetration	50~80	GB/T269
滴点, °C Dropping point	180	GB/T3498
饱和蒸汽压kpa, 20°C Saturated Vapor Pressure	1.33×10^{-9}	GB/T0293

注意事项 Attentions

- * 适用于常温至130°C。
- * 设备及部件被涂抹前必须经适当的溶剂清洗干净, 再用蒸馏水冲洗并烘干。
- * 本产品应在常温及阴凉处保存, 禁止在阳光下直晒, 以免油脂分离及分解。
- * Applicable to the application from room temperature to 130°C.
- * Before using the grease, equipment and parts should be cleaned by the suitable solution and wash them by distilled water, then make them dry.
- * This product should be stored in cool place at room temperature to prohibit the sunshine in case of oil separation and decomposition.

包装规格 Package

- 100克/罐、也可根据客户另行包装
- 100g/pot、 Also can be packed according to customers



HFV-GS 系列

[高低温真空密封脂] [High and low Temperature Vacuum Sealing Grease]

性能 Performance

- * 高低温性能优良。
- * 极佳的氧化安定性和化学稳定性。
- * 耐水密封性能、抗溶剂性能及电性能较好。
- * 极低的饱和蒸汽压和大分子量。
- * Perfect high and low temperature performance.
- * Excellent oxidation and chemical stability.
- * Superior water and solvent resistance and good electrical property.
- * Extreme low saturation vapor pressure and high molecular weight.



用途 Application

- * 使用温度范围-50℃~350℃
- * 适用于真空不大于 2×10^{-4} kpa真空设备系统所有连接部件的润滑和密封。
- * 可用于有溴水及其他化学介质存在下的润滑和密封。
- * 可拆卸法兰、活栓、玻璃拷克、接着低速滑动部位的润滑和密封。
- * 橡胶与金属间的润滑和密封。
- * The temperature ranges from -50℃~350℃.
- * Suitable for lubricating and sealing of all joint parts when vacuum degree appears not higher than 2×10^{-4} kpa.
- * Applicable to the environment where bromine water and other kinds of chemical medium exist.
- * Can be applied to low-speed sliding parts such as demountable flanges, stopcocks, glass corks and joints.
- * Suitable for rubber-to-metal lubrication and sealing.

典型数据 Typical data

项目/等级 Item/Grade	高低温真空密封脂 HFV-GS	试验方法 Experimental Method
外观 Appearance	白色半透明 Translucent and white	目测 Eyeballing
锥入度, 0.1mm (150g, 25) Cone Penetration	265	GB/T269
腐蚀试验 (T2铜片, 100℃, 3h) Corrosion Test (T2 Cooper, 100℃, 3h)	合格 Qualified	GB/T7326
滴点, ℃ Dropping point	360	GB/T3498
饱和蒸汽压kpa, 25℃ Saturated Vapor Pressure	2.0×10^{-9}	GB/T0293
分子量 \geq Molecular Weight	1000	SH/T0220附录B SH/T0220 Appendix B

注：以上数据为代表性式样的测定结果，产品性能以实测为准。

Note: The data above values of typical samples only. Product properties should refer to actual measurement.

包装规格 70克/支、78支/箱

Package 70g/Tube、78Tube /Case

[螺杆式压缩机油] [Screw Compressor Lube Oil]

HFD-MS 系列

性能 Performance

- ★ 本产品主要技术指标符合 ISO/L-DAJ 技术水平。
- ★ 优异的氧化安定性和热稳定性。
- ★ 杰出的低温流动性和粘温特性。
- ★ 良好的水解稳定性和油水分离性。
- ★ 优良的抗磨能力和抗腐蚀性。
- ★ Main technical indexes meet the requirements of ISO/L-DAJ.
- ★ Excellent oxidation and thermal stability.
- ★ Perfect low temperature fluidity and viscosity-temperature characteristics.
- ★ Good hydrolytic stability and oil-water separation properties.
- ★ Desirable wear and corrosion resistance.



用途 Application

- ★ 适用于螺杆式压缩机。
- ★ HFD-特级冷却液主要用于重负荷 (DAJ) 大型螺杆式压缩机的润滑和防护及冷却、密封。
- ★ 适用温度范围: $-30^{\circ}\text{C} \sim +120^{\circ}\text{C}$ 。
- ★ 推荐换油周期 6000 小时以上。
- ★ Suitable for screw compressors.
- ★ Mainly used for the lubrication, protection, cooling and sealing of large-scale screw air compressors with heavy-duty (DAJ).
- ★ Applicable to temperature range from -30°C to $+120^{\circ}\text{C}$.
- ★ Recommended oil-change interval: more than 6000 hours.

典型数据 Typical data

技术标准 ISO-L Standard	ISO-L/DAH			
	HFD-特级冷却液 HFD-MS	HFD-特级冷却液 HFD-MS	HFD-特级冷却液 HFD-MS	试验方法
产品型号 Model				
粘度等级 Viscosity Grade	32	46	68	GB/T265
粘度指数 \geq VI	130	130	130	GB/T2541
倾点 \leq Pour Point	-35	-35	-35	GB/T3535
闪点 \geq Flash Point	240	260	260	GB/T267
颜色 Color	淡黄 Light yellow	淡黄 Light yellow	淡黄 Light yellow	目测 Visual

包装规格 Package

13.5kg/桶、170kg/桶
13.5kg/Bucket、170kg/Barrel



HFD-SR 系列

[高低温螺杆式压缩机润滑油] [High and Low Temperature Screw Compressor Lube Oil]

性能 Performance

- ★ 本产品主要技术指标符合ISO/L-DAH技术水平。
- ★ 杰出的低温流动性和粘温特性。
- ★ 优异的氧化稳定性和热稳定。
- ★ 较高的化学稳定性和较低的表面张力。
- ★ Main technical indexes meet the requirements of ISO/L-DAH.
- ★ Excellent oxidation and thermal stability.
- ★ Superior low temperature fluidity and viscosity-temperature characteristics.
- ★ High chemical durability with low surface tension.



用途 Application

- ★ 适用于喷油回转(螺杆和滑片)式压缩机。
- ★ 主要用于重负荷(DAJ)大型螺杆式压缩机的润滑和防护及冷却、密封。
- ★ 适用温度范围:-40℃~+150℃。
- ★ 推荐换油周期 8000 小时以上。
- ★ Suitable for oil spout rotary screw, and vane compressors.
- ★ Used mainly for the lubrication, protection, cooling and sealing of large-scale screw air compressors with heavy-duty (DAJ).
- ★ Applicable to temperature range from 40℃ to +150℃.
- ★ Recommended oil-change interval: more than 8000 hours.

典型数据 Typical data

技术标准 ISO-L Standard	ISO-L/DAH		
	HFD-超级冷却液 HFD-SR	HFD-超级冷却液 HFD-SR	试验方法
产品型号 Model	HFD-超级冷却液 HFD-SR	HFD-超级冷却液 HFD-SR	试验方法
粘度等级 Viscosity Grade	32	46	GB/T265
粘度指数 ≥ VI	150	150	GB/T2541
倾点 ≤ Pour Point	-50	-50	GB/T3535
闪点 ≥ Flash Point	230	230	GB/T267
颜色 Color	淡黄 Light yellow	淡黄 Light yellow	目测 Visual

包装规格 Package

13.5kg/桶、170kg/桶
13.5kg/Bucket、170kg/Barrel

[螺杆式压缩机专用润滑油] [Screw Compressor Lube Oil]

HFD-M46 系列

性能 Performance

- ★ 本产品主要技术指标符合ISO/L-DAH技术水平。
- ★ 突出的抗氧化能力和耐热稳定性。
- ★ 具有优良的防锈性和防腐蚀性。
- ★ 良好的空气释放性。
- ★ 优异的防水性能，即使有水出现亦不能影响添加剂的稳定作用。
- ★ 具有高承载能力和降低磨损，延长设备使用寿命的能力。
- ★ Main technical indexes meet the requirements of ISO/L-DAH.
- ★ Excellent oxidation and thermal stability.
- ★ Superior antirust ability and corrosion resistance.
- ★ Good air-release property.
- ★ Good waterproof ability to ensure additive stabilization.
- ★ High carrying capacity and effectively resistant to wear to ensure a very long lifetime for equipment.



用途 Application

- ★ 适用于螺杆式压缩机。
- ★ 主要用于轻负荷 (DAH) 螺杆式压缩机的润滑和防护及冷却、密封。
- ★ 适用温度范围: $-10^{\circ}\text{C} \sim +100^{\circ}\text{C}$ 。
- ★ 推荐换油周期3000小时。
- ★ Suitable for screw compressors.
- ★ Mainly used for the lubrication, protection, cooling and sealing of screw compressors with moderate-duty (DAH).
- ★ Applicable to temperature range from -10°C to $+100^{\circ}\text{C}$.
- ★ Recommended oil-change interval: 3000 hours.

典型数据 Typical data

技术标准 ISO-L Standard	ISO-L/DAH			
产品型号 Model	HFD-M46			试验方法
粘度等级 Viscosity Grade	32	46	68	GB/T265
粘度指数 \geq VI	100	100	100	GB/T2541
倾点 \leq Pour Point	-20	-20	-20	GB/T3535
闪点 \geq Flash Point	220	220	220	GB/T267
颜色 Color	淡黄 Light yellow	淡黄 Light yellow	淡黄 Light yellow	目测 Visual

包装规格 Package

13.5kg/桶、170kg/桶
13.5kg/Bucket、170kg/Barrel



HFD-MD 系列

[螺杆式压缩机油] [Screw Compressor Lube Oil]

性能 Performance

- * 本产品主要技术指标符合 ISO/L-DAH/DAJ 技术水平。
- * 优异的氧化安定性和热稳定性。
- * 良好的抗乳化性:能使油水迅速分离。
- * 较快的空气释放性和抗泡性。
- * 良好的抗腐蚀性和抗磨性。
- * 换油周期长,可延长设备使用寿命。
- * Main technical indexes meet the requirements of ISO-DAH/DAJ.
- * Excellent oxidation and thermal stability.
- * Highly resistant to emulsification and rapidly water-oil separation.
- * Good air-release property and foam resistance.
- * Effectively anti-corrosion and wear resistance.
- * Extended oil drain intervals to ensure a very long lifetime for equipments.



用途 Application

- * 适用于螺杆式压缩机。
- * 主要用于轻负荷 (DAH/DAJ) 大型螺杆式压缩机的润滑和防护及冷却、密封。
- * 适用温度范围: -30°C ~ +100°C。
- * 推荐换油周期 4000 小时。
- * Suitable for screw compressors.
- * Mainly used for the lubrication, protection, cooling and sealing of large-scale screw air compressors with moderate-duty (DAH/DAT).
- * Applicable to temperature range from -30°C to +100°C.
- * Recommended oil-change interval: 4000 hours.

典型数据 Typical data

技术标准 ISO-L Standard	ISO-L/DAH		
	HFD-超级冷却液 HFD-MD	HFD-超级冷却液 HFD-MD	试验方法
产品型号 Model	HFD-超级冷却液 HFD-MD	HFD-超级冷却液 HFD-MD	试验方法
粘度等级 Viscosity Grade	32	46	GB/T265
粘度指数 ≥ VI	150	150	GB/T2541
倾点 ≤ Pour Point	-50	-50	GB/T3535
闪点 ≥ Flash Point	230	230	GB/T267
颜色 Color	淡黄 Light yellow	淡黄 Light yellow	目测 Visual

包装规格 Package

13.5kg/桶、170kg/桶
13.5kg/Bucket、170kg/Barrel



为您提供润滑解决方案



惠丰润滑油抖音号



惠丰润滑油小红书



惠丰润滑油视频号



惠丰润滑油公众号

苏州惠丰润滑材料有限公司制造
SUZHOU HUIFENG LUBRICATING MATERIALS CO., LTD

江苏省常熟市支塘镇何市工业园
销售服务热线：4009217600
邮箱：hfsh@hflube.com

上海惠丰石油化工有限公司销售
SHANGHAI HUIFENG PETROLEUM&CHEMICAL CO.,LTD

上海市长宁区番禺路75弄1号 200052
传真：86-21-52397633、62105356
网址：<http://www.hflube.com>