



RELEASE AGENTS  
PISTON LUBRICANTS  
DIE-FORGING AGENTS  
HEAT TRANSFER FLUIDS

压铸脱模剂  
柱塞润滑剂  
锻造润滑剂  
传热流体

# DIE-CASTING & FORGING MEDIA

压铸和锻造



**PETROFER**  
industrial oils and chemicals



# 压铸和锻造

# DIE-CASTING & FORGING MEDIA

PETROFER offers a comprehensive portfolio of products and services for high pressure die casting of aluminum, magnesium, zinc components and other molten metals, as well as many gravity, low pressure and other specialized casting processes. In addition, we have a wide range of products for the forging process in many countries. We provide a regular inspection service for the fluids used in the processes and equipment to keep the manufacturing process running smoothly while optimising the life of machine fluids, die casting machines, equipment and high pressure hydraulic components.

德润宝为铝、镁、锌组件和其他熔融金属的高压压铸以及适用于许多重力、低压和其他专业铸造工艺，提供全面的产品和服务组合。此外，在诸多国家，德润宝拥有广泛的用于锻造工艺的产品。我们为您的工艺和设备中使用的流体提供定期检查服务，帮助您保持制造过程平稳运行，同时优化机器流体、压铸机、设备和高压液压元件的使用寿命。

# A RELEASE AGENTS 压铸脱模剂

压铸润滑产品系列包括用于铝、镁和锌压铸工艺的水稀释和非水稀释脱模剂。我们的含蜡和无蜡产品以及我们专门为微生物污染系统开发的浓缩物也可用于中央供应系统。另外，我们还提供用于创新喷涂方法的特殊产品。

The die casting lubricant product lines include water dilution and non-water dilution release agents for aluminum, magnesium, and zinc die casting processes. Our waxy and wax-free products, as well as our concentrates specifically developed for microbial contamination systems, can also be used in central supply systems. In addition, we offer special products for innovative spraying methods.

## 铝/镁压铸 Aluminum/ Magnesium Die Casting

PRODUCT MODEL 产品种类	COMPOSITION 成分	MIXING RATIO 混合比例	PRODUCT FEATURE 特性
DIE-LUBRIC 80 WL	合成油 蜡 Synthetic Oil Wax	1: 30 - 1: 60	<ul style="list-style-type: none"> <li>- 无硅氧烷脱模剂</li> <li>- 适用于轻中型铸件</li> <li>- Siloxane free release agent</li> <li>- Suitable for light and medium-sized casting</li> </ul>
DIE-LUBRIC 78 WF	聚硅氧烷 Polysiloxane	1:100 - 1:140	<ul style="list-style-type: none"> <li>- 无蜡</li> <li>- 通用脱模剂</li> <li>- 适用于轻型表面铸造</li> <li>- Wax-free</li> <li>- General release agent</li> <li>- Suitable for light-sized surface casting</li> </ul>
DIE-LUBRIC 4062 T	聚硅氧烷 蜡 合成油 Polysiloxane Wax Synthetic Oil	1:120 - 1:160	<ul style="list-style-type: none"> <li>- 高倍率稀释</li> <li>- 良好的成膜性能</li> <li>- 实现铸件有效的粘结和成膜</li> <li>- High Dilution</li> <li>- Superior molding effect</li> <li>- Realize effective bonding and film formation of castings</li> </ul>
DIE-LUBRIC 5060	聚硅氧烷 蜡 矿物油 Polysiloxane Wax Mineral oil	1:100 - 1:160	<ul style="list-style-type: none"> <li>- 专为薄壁镁合金铸件设计</li> <li>- 支持远距离金属液流动</li> <li>- 非常好的成膜性能</li> <li>- 良好的防腐性能</li> <li>- Specially developed for thin-walled magnesium alloy castings</li> <li>- Good fluidity of long range metal fluids</li> <li>- Superior molding effect</li> <li>- Excellent corrosion resistance effect</li> </ul>

## 脱模剂 Release agents

PRODUCT MODEL 产品种类	COMPOSITION 成分	MIXING RATIO 混合比例	PRODUCT FEATURE 特性
DIE-LUBRIC 1050 BS	聚硅氧烷 蜡 Polysiloxane Wax	1:80 - 1:120	<ul style="list-style-type: none"> <li>- 良好的涂层性能</li> <li>- 适用于干净和轻薄的表面铸件</li> <li>- 出色的脱模效果</li> <li>- Good coating performance</li> <li>- Suitable for clean and light and thin surface castings</li> <li>- Excellent demolding effect</li> </ul>

## 脱模剂 Release agents

PRODUCT MODEL 产品种类	COMPOSITION 成分	MIXING RATIO 混合比例	PRODUCT FEATURE 特性
DIE-LUBRIC 1050 BS	聚硅氧烷蜡 Polysiloxane Wax	1:80 – 1:120	<ul style="list-style-type: none"> <li>- 良好的涂层性能</li> <li>- 适用于干净和轻薄的表面铸件</li> <li>- 出色的脱模效果</li> <li>- Good coating performance</li> <li>- Suitable for clean and light and thin surface castings</li> <li>- Excellent demolding effect</li> </ul>
DIE-LUBRIC 5050 BS	聚硅氧烷蜡 合成油 矿物油 polysiloxane Wax Synthetic Oil Mineral oil	1:70 – 1:100	<ul style="list-style-type: none"> <li>- 良好的涂层性能</li> <li>- 能有效阻止残留物形成</li> <li>- 过量喷涂后的表面柔软残留物，易于清除</li> <li>- Good coating performance</li> <li>- Effectively prevent the formation of residues</li> <li>- Easily remove soft residue on the surface after excessive spraying</li> </ul>
DIE-LUBRIC 1060 BS-2	聚硅氧烷蜡 Polysiloxane Wax	1:100 – 1:140	<ul style="list-style-type: none"> <li>- 良好的涂层性能</li> <li>- 能有效阻止残留物形成</li> <li>- Good coating performance</li> <li>- Effectively prevent the formation of residues</li> </ul>

## 用于微喷应用的特殊脱模剂

### Special release agent for micro spray applications

PRODUCT MODEL 产品种类	COMPOSITION 成分	MIXING RATIO 混合比例	PRODUCT FEATURE 特性
MS 30561	聚硅氧烷 Polysiloxane	原液 Primary liquid	<ul style="list-style-type: none"> <li>- 无蜡</li> <li>- 优异的润湿性能</li> <li>- 在高模具温度下具有非常好的脱模效果</li> <li>- Wax free</li> <li>- Excellent wettability effect</li> <li>- Release ability at high temperature in the mold</li> </ul>
DIE-LUBRIC HT 2	聚硅氧烷 Polysiloxane	原液 Primary liquid	<ul style="list-style-type: none"> <li>- 无蜡</li> <li>- 良好的涂层性能</li> <li>- 在高模具温度下具有非常好的脱模效果</li> <li>- Wax free</li> <li>- Good coating performance</li> <li>- Release ability at high temperature in the mold</li> </ul>
DIE-LUBRIC HT-W4	聚硅氧烷蜡 油 Polysiloxane Wax Oil	原液 Primary liquid	<ul style="list-style-type: none"> <li>- 优异的润湿能力</li> <li>- 在高模具温度下具有非常好的脱模效果</li> <li>- 不易燃</li> <li>- Excellent wettability effect</li> <li>- Release ability at high temperature in the mold</li> <li>- Non flammable</li> </ul>

## 锌压铸-非水稀释 Zinc Die Casting - Non water dilution

PRODUCT MODEL 产品种类	COMPOSITION 成分	FLASH POINT 闪点	PRODUCT FEATURE 特性
DIE-LUBRIC FL P DIE-LUBRIC FL P/135	微链烷烃 碳氢化合物 合成酯  Microalkanes Hydrocarbon Synthetic ester	> 60 °C  > 130 °C	<ul style="list-style-type: none"> <li>- 不含硅氧烷</li> <li>- 低芳烃</li> <li>- 低气味和低烟雾</li> <li>- 温度稳定, 可达200 摄氏度</li> <li>- 适用于低压部件</li> <li>- 适用于中等复杂的部件</li> <li>- Siloxane free</li> <li>- Low aromatic</li> <li>- Low odor and low smoke</li> <li>- Temperature stabilized, up to 200 °C</li> <li>- Suitable for low-voltage components</li> <li>- Suitable for moderately complex components</li> </ul>
DIE-LUBRIC FL-G 2 SPEZIAL	微链烷烃 碳氢化合物 合成酯 精制石蜡油  Microalkanes Hydrocarbon Synthetic ester Highly refined paraffin oil	> 65 °C	<ul style="list-style-type: none"> <li>- 低气味和低烟雾</li> <li>- 温度稳定, 可达200 摄氏度</li> <li>- 适用于高压部件</li> <li>- 适用于中等复杂到复杂的零部件</li> <li>- Low odor and low smoke</li> <li>- Temperature stabilized, up to 200 °C</li> <li>- Suitable for high-voltage components</li> <li>- Suitable for moderately complex to complex components</li> </ul>
DIE-LUBRIC FLN	微链烷烃 碳氢化合物 脂肪酸酯 矿物油  Microalkanes Hydrocarbon Fatty acid este Mineral oil	> 60 °C	<ul style="list-style-type: none"> <li>- 低气味和低烟雾</li> <li>- 温度稳定高达300 摄氏度</li> <li>- 适用于低压部件</li> <li>- 适用于中等复杂的部件</li> <li>- Low odor and low smoke</li> <li>- Temperature stabilized, up to 300 °C</li> <li>- Suitable for low-voltage components</li> <li>- Suitable for moderately complex components</li> </ul>

## 压铸-辅助用品 Die casting auxiliary supplies

PRODUCT MODEL 产品种类	COMPOSITION 成分	PRODUCT FEATURE 特性
DIE-LUBRIC Antilöt	石墨 石蜡 矿物油 硫酸  Graphite Paraffinic Mineral oil Sulfuric acid	<ul style="list-style-type: none"> <li>- 不含硅和蜡</li> <li>- 适用于模具温度&gt;100 摄氏度</li> <li>- 良好的防腐性能</li> <li>- 抗微生物</li> <li>- 实现铸件的有效涂层</li> <li>- Wax-free and Silicon-free</li> <li>- Suitable for mold temperature &gt; 100 °C</li> <li>- Good corrosion resistance</li> <li>- Antibacterial performance</li> <li>- Realize effective coating of castings</li> </ul>
DIE-LUBRIC ALP	石墨 铝盐 石蜡 矿物油  Graphite Aluminum salt Paraffin Mineral oil	<ul style="list-style-type: none"> <li>- 使用刷子可轻松安全地粘贴</li> <li>- 低气味和低烟雾</li> <li>- 可用于热点润滑</li> <li>- 适用于非常轻薄的部件表面</li> <li>- Easy and safe pasting with a brush</li> <li>- Low odor and low smoke</li> <li>- Used for hot spot lubrication</li> <li>- Suitable for very thin and light component surfaces</li> </ul>

## 大型一体化微喷应用的脱模剂

### Release agent for large-scale integrated micro spray applications

PRODUCT MODEL 产品种类	COMPOSITION 成分	MIXING RATIO 混合比例	PRODUCT FEATURE 特性
DIE-LUBRIC 37411	合成油 Synthetic Oil	原液 Primary liquid	<ul style="list-style-type: none"> <li>- 无蜡无硅</li> <li>- 免清洗、不影响后道喷涂和胶粘</li> <li>- 在高模具温度下具有非常好的脱模效果</li> <li>- Wax-free and Silicon-free</li> <li>- Free cleaning and no influence on subsequent spraying and adhesive</li> <li>- Good release ability at high mold temperature</li> </ul>
DIE-LUBRIC HT 380	合成油 Synthetic Oil	原液/1:50 - 1:100 Primary liquid /1:50 - 1:100	<ul style="list-style-type: none"> <li>- 无蜡无硅</li> <li>- 免清洗、不影响后道喷涂和胶粘</li> <li>- 应用于常规喷涂和微喷</li> <li>- Wax-free and Silicon-free</li> <li>- Free cleaning and no influence on subsequent spraying and adhesive</li> <li>- Suitable for common spraying and micro spraying</li> </ul>

## 锌压铸-水稀释 Zinc Die Casting - water dilution

PRODUCT MODEL 产品种类	COMPOSITION 成分	MIXING RATIO 混合比例	PRODUCT FEATURE 特性
DIE-LUBRIC 33 ZN	矿物油 Mineral oil	1:30 - 1:80	<ul style="list-style-type: none"> <li>- 不含硅和蜡</li> <li>- 适用于模具温度&gt;100 摄氏度</li> <li>- 良好的防腐性能</li> <li>- 抗微生物</li> <li>- 实现铸件的有效涂层</li> <li>- Wax-free and Silicon-free</li> <li>- Suitable for mold temperature &gt; 100 °C</li> <li>- Antibacterial performance</li> <li>- Realize effective coating of castings</li> </ul>
DIE-LUBRIC 303 ZN	矿物油 Mineral oil	1:20 - 1:80	<ul style="list-style-type: none"> <li>- 不含硅和蜡</li> <li>- 出色的释放和润滑效果</li> <li>- 能有效阻止残留物形成</li> <li>- Wax-free and Silicon-free</li> <li>- Excellent release and lubrication effect</li> <li>- Effectively prevent the formation of residues</li> </ul>

## 锌压铸-非水稀释 Zinc Die Casting - Non water dilution

PRODUCT MODEL 产品种类	COMPOSITION 成分	FLASH POINT 闪点	PRODUCT FEATURE 特性
DIE-LUBRIC FL 453	合成酯 Synthetic ester	> 240 °C	<ul style="list-style-type: none"> <li>- 不含硅氧烷</li> <li>- 无溶剂</li> <li>- 用于微喷应用的脱模剂</li> <li>- 适用于具有多滑块技术的快速运行系统</li> <li>- Siloxane free</li> <li>- Solvent-free</li> <li>- Release agent for micro spray applications</li> <li>- Suitable for fast running systems with multi slider technology</li> </ul>



我们的柱塞润滑剂和柱塞粉末产品包括含石墨和无石墨柱塞润滑油，所有设计均旨在实现卓越的润滑效果，并满足高质量和经济的压铸工艺。

Our piston lubricant and piston powder products include graphite-containing and graphite-free piston lubricants. All development for superior lubrication and to meet the demands of a high-quality and economical die casting process.

## 流体柱塞润滑剂 - 无石墨 Fluid Piston Lubricants - graphite-free

PRODUCT MODEL 产品种类	VISCOSITY 40°C 粘度40°C	FIRE POINT 燃点	APPLICATION RANGE 应用范围
PISTON LUBRICANT GF 3	约300 mPas approximately 300 mPas	> 280 °C	<ul style="list-style-type: none"> <li>- 喷雾和滴注润滑</li> <li>- 适用于中小型柱塞直径</li> <li>- Spray and drip lubrication</li> <li>- For small and medium piston diameters</li> </ul>
PISTON LUBRICANT GF 22 PISTON LUBRICANT GF 7	约630 mPas 约900 mPas approximately 630 mPas approximately 900 mPas	> 280 °C > 280 °C	<ul style="list-style-type: none"> <li>- 喷雾和滴注润滑</li> <li>- 适用于中大型柱塞直径</li> <li>- Spray and drip lubrication</li> <li>- For medium and large piston diameters</li> </ul>

## 流体柱塞润滑剂 - 含石墨 Fluid Piston Lubricants - graphite

PRODUCT MODEL 产品种类	VISCOSITY 40°C 粘度40°C	FIRE POINT 燃点	APPLICATION RANGE 应用范围
PISTON LUBRICANT AP 270	2150 mPas	> 280 °C	<ul style="list-style-type: none"> <li>- 主要用于滴注润滑</li> <li>- 适用于各类型柱塞直径</li> <li>- Suitable for drip lubrication</li> <li>- Suitable for all types of piston diameters</li> </ul>
PISTON LUBRICANT AP	2400 mPas	> 280 °C	<ul style="list-style-type: none"> <li>- 滴注润滑</li> <li>- 适用于各类型柱塞直径</li> <li>- Suitable for drip lubrication</li> <li>- Suitable for all types of piston diameters</li> </ul>

## 固体柱塞润滑剂 - 无石墨 Solid Piston Lubricants - graphite-free

PRODUCT MODEL 产品种类	COMPOSITION 成分	MELTING RANGE 熔化范围	PARTICLE SIZE 粒度
PISTON POWDER FG	天然化石蜡 Natural Fossil Wax	77 – 82 °C	0.5 – 1.5 mm
PISTON POWDER FG-P	聚乙烯蜡 Polyethylene wax	98 – 103 °C	0.5 – 1.5 mm





# PISTON LUBRICANTS

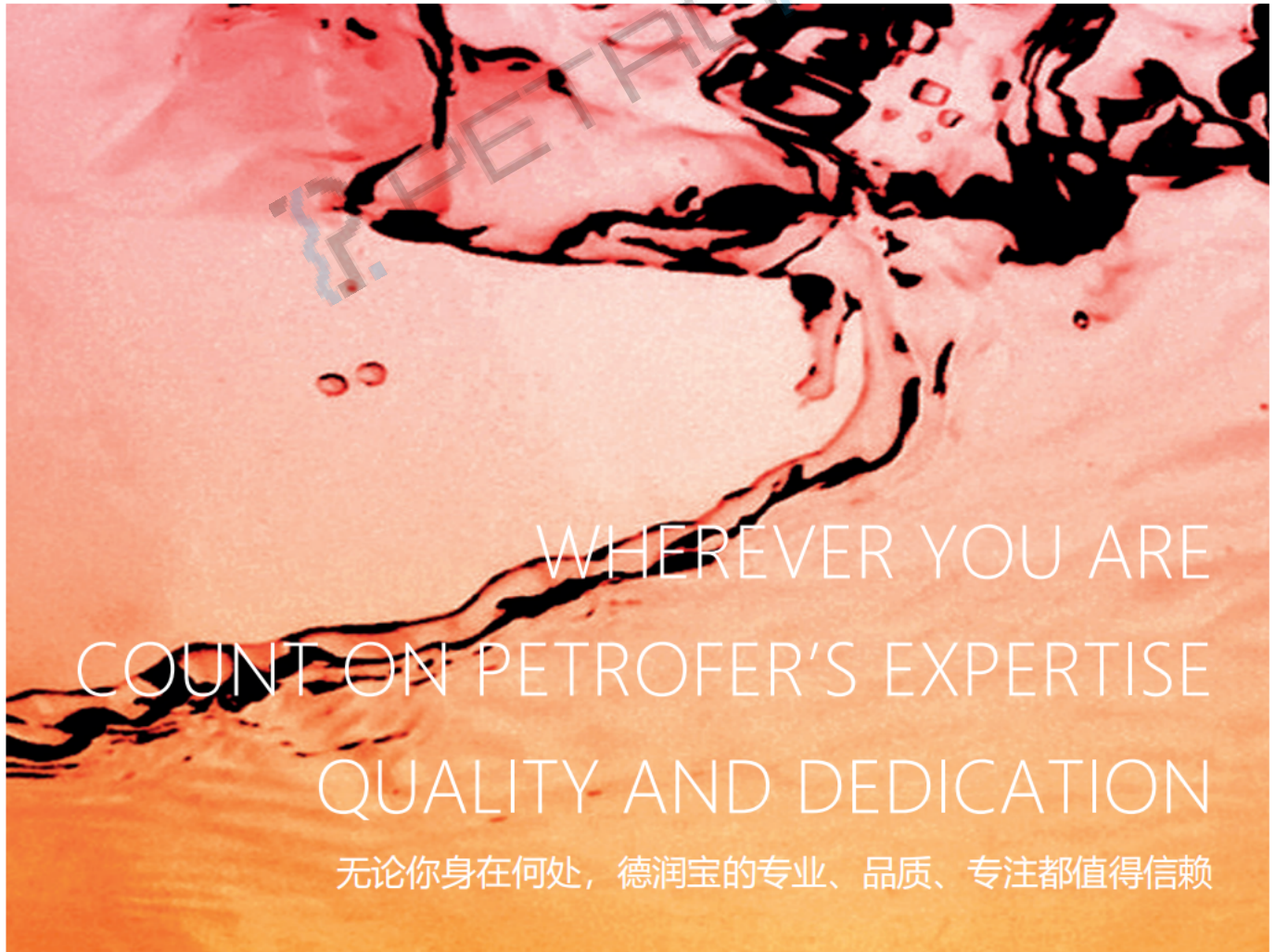
柱塞润滑剂

我们的柱塞润滑剂和柱塞粉末产品包括含石墨和无石墨柱塞润滑油，所有设计均旨在实现卓越的润滑效果，并满足高质量和经济的压铸工艺。

Our piston lubricant and piston powder products include graphite-containing and graphite-free piston lubricants. All development for superior lubrication and to meet the demands of a high-quality and economical die casting process.

## 固体柱塞润滑剂-含石墨 Solid Piston Lubricants - graphite

PRODUCT MODEL 产品种类	COMPOSITION 成分	MELTING RANGE 熔化范围	PARTICLE SIZE 粒度
PISTON POWDER FG-S	天然化石蜡 石墨 Natural Fossil Wax Graphite	77 – 82 °C	0.5 – 1.5 mm
PISTON POWDER PP-S	聚乙烯蜡 石墨 Polyethylene wax Graphite	98 – 103 °C	0.5 – 1.5 mm







# DIE-FORGING AGENTS 锻造润滑剂

我们的模锻产品系列包括用于模锻和热压的水稀释和无水润滑剂。含石墨和无石墨产品均符合最严格的质量标准，有助于延长模具的使用寿命。

Our series of die forging products include water dilutable and anhydrous lubricants for die forging and hot pressing. Both graphite-containing and graphite-free products meet the most stringent quality standards and help to extend the life of molds.

## 锻造剂-水稀释、无石墨 Forging agent - water diluted, graphite free

PRODUCT MODEL 产品种类	APPLICATION CONCENTRATION 应用浓度	APPLICATION RANGE 应用范围
DIE-FORGENT GF 25	5 – 10 %	<ul style="list-style-type: none"> <li>- 适用于扁平轮廓的简单至中等重量钢构件</li> <li>- 轻盐和聚合物基产品</li> <li>- Suitable for simple to medium weight steel components with flat contours</li> <li>- Light salts and polymer-based products</li> </ul>
DIE-FORGENT GF 15BD	5 – 15 %	<ul style="list-style-type: none"> <li>- 适用于扁平轮廓的简单至中等重量钢构件</li> <li>- 轻盐和聚合物基产品</li> <li>- Suitable for simple to medium weight steel components with flat contours</li> <li>- Light salts and polymer-based products</li> </ul>
DIE-FORGENT GF 2	5 – 20 %	<ul style="list-style-type: none"> <li>- 适用于自动循环系统和润滑系统</li> <li>- 适用于重型锻造任务</li> <li>- 棕色天然聚合物基产品</li> <li>- Suitable for automatic circulation systems and lubrication systems</li> <li>- For heavy-duty forging tasks</li> <li>- Brown natural polymer-based products</li> </ul>

## 锻造剂-水稀释、含石墨 Forging agent - water diluted, graphite

PRODUCT MODEL 产品种类	SOLID CONTENT 固含量	ROTATIONAL VISCOSITY 25°C 旋转粘度25°C	APPLICATION RANGE 应用范围
DIE-FORGENT WL 155	> 15%	> 1000	钢、铝和非铁合金 Steel, aluminum and non-ferrous alloys
DIE-FORGENT WL 149	> 15%	> 1000	钢、铝和非铁合金 Steel, aluminum and non-ferrous alloys
DIE-FORGENT WL 148	> 15%	> 1000	钢、铝和非铁合金 Steel, aluminum and non-ferrous alloys



## 锻造剂-非水稀释、含石墨 Forging agent - non-water diluted, graphite

PRODUCT MODEL 产品种类	SOLID CONTENT 固含量	ROTATIONAL VISCOSITY 25°C 旋转粘度25°C	APPLICATION RANGE 应用范围
DIE-FORGENT AP 280 S-A	>10%	>100	铝, 钢材质锻造 Aluminum, steel forging
DIE-FORGENT AP 280 S	>10%	>100	铝, 钢材质锻造 Aluminum, steel forging

## D HEAT TRANSFER FLUIDS 传热流体

用于模具、加热和冷却设备以及其他传热系统的传热流体，具有优异的耐老化性能；可提供合成油或矿物油。

Heat transfer fluids for molds, heating and cooling equipment, and other heat transfer systems with excellent aging resistance; available in synthetic or mineral oils.

PRODUCT MODEL 产品种类	COMPOSITION 成分	VISCOSITY 40°C 粘度40°C	FIRE POINT 燃点	MAXIMUM FLUID TEMPERATURE 最高流体温度
TRANSTHERM 496	矿物油 Mineral oil	30 mm <sup>2</sup> -s	230 °C	320 °C
TRANSTHERM 525	合成物 碳氢化合物 Synthetic hydrocarbon	21 mm <sup>2</sup> -s	195 °C	310 °C
TRANSTHERM 617	合成物 碳氢化合物 Synthetic hydrocarbon	17 mm <sup>2</sup> -s	205 °C	365 °C



WE LISTEN  
WE DEVELOP  
WE DELIVER

我们倾听 · 我们开发 · 我们实现

Petrofer is your professional partner for the special Lubricants and fluids for your production process in the world.

德润宝是您在特种化学品和流体工艺中专业的全球合作伙伴。

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2	DIE-CASTING & FORGING MEDIA	压铸和锻造
3	FIRE-RESISTANT HYDRAULIC FLUIDS	抗燃液压
4	METAL WORKING FLUIDS	金属加工介质
5	METAL FORMING LUBRICANTS	金属成型加工
6	INDUSTRIAL LUBRICANTS	工业润滑
7	INDUSTRIAL CLEANERS	工业清洗剂
8	RUST PREVENTATIVES	防锈剂
9	PAPER CHEMICALS	造纸
10	GREASES	润滑脂

For more information, please visit the website or scan the QR code to obtain.

更多信息请登陆官网或扫描二维码获得。



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