

# 脱模剂产品目录

Release Agent Product Catalogue



## 浙江润禾有机硅新材料有限公司

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## 卓越的有机硅脱模剂原材料制造商

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Runhe Materials headquarters in the beautiful and rich coastal city --- Ninghai, Zhejiang. In this wonderful land, with broad development vision, strong technical strength and efficient management capability, Runhe has developed into a professional high-tech enterprise integrating product research and development, environmental protection production, application development, and import and export sales. Listed on the Shenzhen Stock Exchange, stock abbreviation: Runhe Materials, stock code: 300727.



## 浙江润禾有机硅新材料有限公司 Zhejiang Runhe Silicone New Materials Co., Ltd.

浙江润禾有机硅新材料有限公司是其子公司，主要生产的产品有：有机硅表面活性剂、消泡剂、化妆品用硅油、乙烯基硅油、脱模剂硅油、含氢硅油、流平剂等系列产品。

Zhejiang Runhe Silicone New Materials Co., Ltd. is its subsidiary company. The main products cover following series: silicone surfactant, defoamer, silicone oil for personal care, vinyl silicone oil, release agent silicone oil, hydrogen-containing silicone oil, leveling agent and so on.

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# 金属压铸脱模剂 Release Agent for Metal Die-casting

## 概述 Overview

### 金属压铸是什么 What is Aluminium Die-casting

金属压铸成型是在高压、高速条件下，将熔融的铝合金、锌合金等有色金属注入模具中充型，并在高压下冷却凝固成形的精密铸造方法。

- Aluminium Die-casting:
- High pressure and high speed
  - The Cavity filled with molten metal
  - Cooling, curing and forming at high pressure
  - Open the Ejector die, the die-casting products ejection.

### 金属压铸脱模剂的本质及主要作用 Nature and Main Function of Mold Release Agent

本质：金属压铸过程中使用的脱模剂的本质就是为金属液与压铸模具之间提供有效的隔离保护层。

主要作用：脱模剂是帮助金属压铸产品能够从模具中取出，并且使产品保持完整性和后加性。

Nature:An isolation protection layer between the molten metal and the die-casting mold.

Main Function:Help metal die casting products to be removed from the mold, and make the product maintain integrity and post-processing.

## 有机硅脱模剂的优点 Advantages of Silicone Release Agent

### 为什么选择有机硅脱模剂 Why to Choose Silicone as Mold Release Agent

脱模剂有两种效应：  
> 填充效应，即脱模剂填充模具表面的深孔、沟和裂纹；  
> 润滑效应，即脱模剂降低制品与模具表面之间的摩擦力。  
有机硅材料的表面张力低，同时具有这两种效应。

Two effects of Mold Release  
> Filling effect: Filling the deep-hole, groove, crack on the surface of mold.  
> Lubricating effect: Reduce the friction between products and mold surface.  
Silicone Release Agent, with low surface tension, having both effects of filling and lubricating.

### 为什么硅油需要乳化后使用 Why to Use after Emulsifying

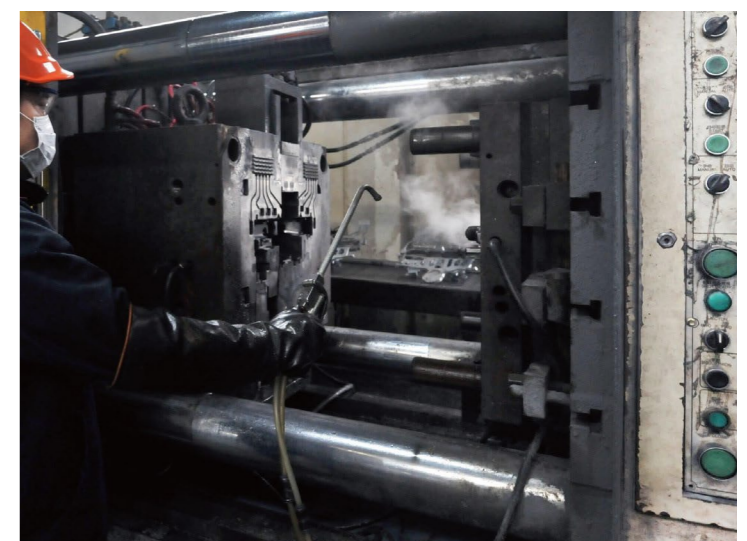
水基脱模剂喷涂在模具表面后，会在模具表面形成微米的薄膜，对模具和压铸件起到隔离作用。其明显优点就是便于实现喷涂自动化、对模具具有较好的冷却效果、模具表面涂覆均匀、压铸件表面质量好、内部缺陷少、降低环境污染等。

After spraying water-based demoulding agent on the mold surface, a micron film will be formed on the surface of mold. It has the following advantages:  
Automatically spraying; good cooling effect on the mold.  
Evenly coated on mold surface; surface quality of die-casting products is good; few internal defects.  
Reduce environmental pollution due to its stability, no precipitation, no decomposition.

### 压铸脱模剂要求 Requirements for Die-cast Release Agent

- 要求：
- > 耐热性：制件越大，所需热量越多；
  - > 脱模性：制件越精密，脱模越关键；
  - > 可再涂印性：喷漆，涂复前的清洁工作较少；
  - > 积碳残留：残留越少=模量越大。

Requirements:  
> Heat resistance : The larger the molded part, the more heat  
> Release : The more detailed the part the more critical  
> Over-coatability : Less cleaning prior to painting, glueing, etc.  
> Residues : Less residues = more molding ‘shots’ before cleaning





## 产品目录 Product Catalogue



长链烷基  
改性硅油  
Long-chain Alkyl  
Modified Silicone Oil



芳烷基  
改性硅油  
Aryl Alkyl  
Modified Silicone Oil



脱模剂  
硅油乳液  
Long-chain Aralkyl  
Modified Silicone Emulsion



二甲基  
硅油乳液  
Dimethyl  
Silicone Oil Emulsion



复合材料  
脱模剂  
Mold Release for  
Composite Materials



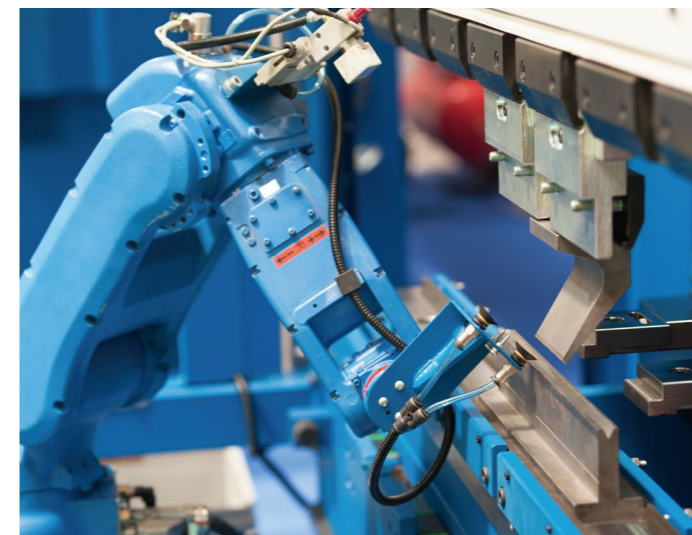
## 长链烷基改性硅油 Long-chain Alkyl Modified Silicone Oil

### RH-8206A

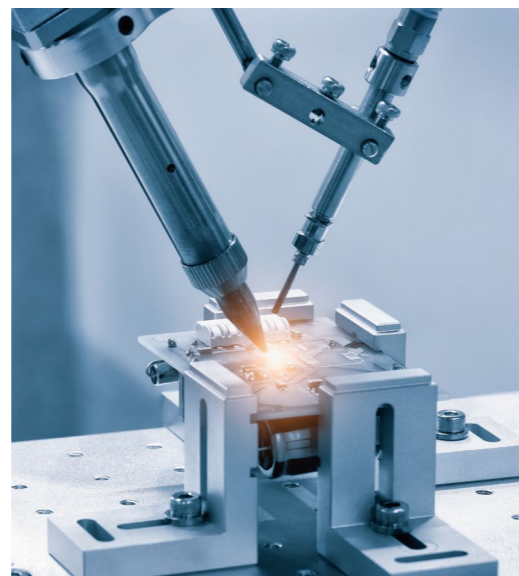
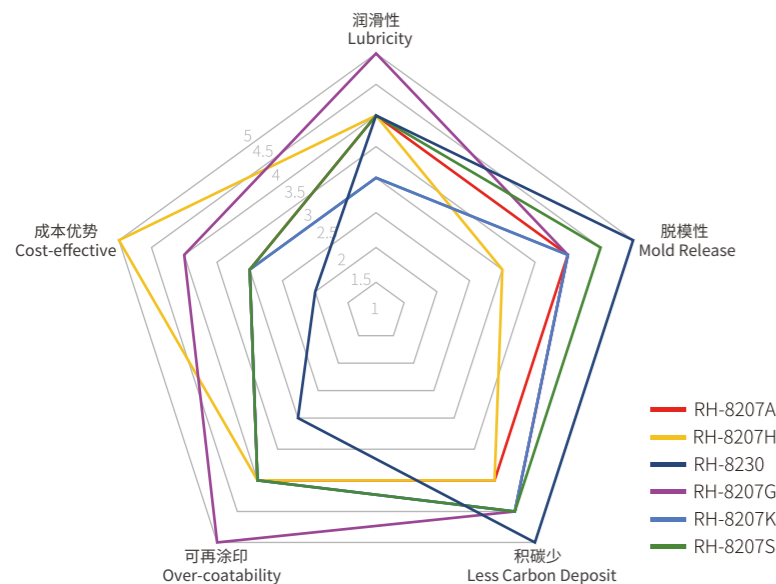
产品型号 Product Grade	RH-8206A
外观 Appearance	浅淡黄色液体 Light yellow liquid
粘度 Viscosity, mm <sup>2</sup> /s	800 -1200
折光 Refraction, 25°C	1.4530 -1.4550
挥发份 Volatile Matter, %	<1.0

#### 产品特点 Features:

- ▶ 润滑性好 Good lubricity
- ▶ 脱模性好 Good mold release
- ▶ 可再涂印性好 Excellent over-coatability



 **芳烷基改性硅油**  
Aryl Alkyl Modified Silicone Oil



## RH-8207A

产品型号 Product Grade	RH-8207A
外观 Appearance	浅淡黄色液体 Light yellow liquid
粘度 Viscosity, mm <sup>2</sup> /s	1200-1400
折光 Refraction, 25°C	1.4650 -1.4675
挥发份 Volatile Matter, %	<1.0

### 产品特点 Features:

- ▶ 耐高温好 Good heat resistance
- ▶ 脱模性好 Good mold release
- ▶ 制件亮度好 Good brightness of die-cast part
- ▶ 可再涂印性好 Good over-coatability

产品型号 Product Grade	外观 Appearance	粘度 Viscosity, mm <sup>2</sup> /s	折光 Refraction, 25°C	挥发份 Volatile Matter, %
RH-8207A	浅淡黄色液体 Light yellow liquid	1200-1400	1.4650-1.4675	<1.0
RH-8207H	浅淡黄色液体 Light yellow liquid	1500-1900	1.4655-1.4675	<1.0
RH-8207G	浅淡黄色液体 Light yellow liquid	1700-2000	1.4760-1.4800	<3.0
RH-8207K	浅淡黄色液体 Light yellow liquid	600-900	1.4750-1.4850	<10.0
RH-8207S	浅淡黄色液体 Light yellow liquid	3500-4500	1.5020-1.5100	<3.0
RH-8230	浅淡黄色液体 Light yellow liquid	1000-1650	1.4600-1.4650	<3.0



## RH-8207H

产品型号 Product Grade	RH-8207H
外观 Appearance	浅淡黄色液体 Light yellow liquid
粘度 Viscosity, mm <sup>2</sup> /s	1500-1900
折光 Refraction, 25°C	1.4655 -1.4675
挥发份 Volatile Matter, %	<1.0

### 产品特点 Features:

- ▶ 耐高温性好 Good heat resistance
- ▶ 脱模性好 Good mold release
- ▶ 性价比高 High cost-effective
- ▶ 可再涂印性好 Good over-coatability



## RH-8207G

产品型号 Product Grade	RH-8207G
外观 Appearance	浅淡黄色液体 Light yellow liquid
粘度 Viscosity, mm <sup>2</sup> /s	1700-2000
折光 Refraction, 25°C	1.4760-1.4800
挥发份 Volatile Matter, %	<3.0

### 产品特点 Features:

- ▶ 耐高温性好 Good heat resistance
- ▶ 脱模性好 Good mold release
- ▶ 较大型压铸场景  
Applied in larger die-casting, around 1500tons

## RH-8207K

产品型号 Product Grade	RH-8207K
外观 Appearance	浅淡黄色液体 Light yellow liquid
粘度 Viscosity, mm <sup>2</sup> /s	600-900
折光 Refraction, 25°C	1.4750-1.4850
挥发份 Volatile Matter, %	<10.0

### 产品特点 Features:

- ▶ 较高温压铸场景  
Applied in higher temperature die-casting
- ▶ 脱模性好 Good mold release
- ▶ 制件亮度高 Good brightness of die-cast part
- ▶ 可再涂印性好 Good over-coatability

## RH-8207S

产品型号 Product Grade	RH-8207S
外观 Appearance	浅淡黄色液体 Light yellow liquid
粘度 Viscosity, mm <sup>2</sup> /s	3500-4500
折光 Refraction, 25°C	1.5020-1.5100
挥发份 Volatile Matter, %	<3.0

## RH-8230

产品型号 Product Grade	RH-8230
外观 Appearance	浅淡黄色液体 Light yellow liquid
粘度 Viscosity, mm <sup>2</sup> /s	1000-1650
折光 Refraction, 25°C	1.4600-1.4650
挥发份 Volatile Matter, %	<3.0

### 产品特点 Features:

- 超高苯基含量 Super high Phenyl content
- 耐温性好 Good heat resistance
- 粘度高 High viscosity

### 产品特点 Features:

- 脱模性好 Good mold release
- 耐温性好 Good heat resistance
- 积碳少 Less carbon deposit
- 可再涂印性好 Good over-coatability



## 脱模剂硅油乳液

Long-chain Aralkyl Modified Silicone Emulsion

产品型号 Product Grade	外观 Appearance	固含量 Solid Content, %	PH值 PH Value
RH-8207A-50%乳液	乳白色液体 Milky white liquid	50±2	6-7
RH-8207H-50%乳液	乳白色液体 Milky white liquid	50±2	6-7
RH-8207H-55%乳液	乳白色液体 Milky white liquid	55±2	6-7
RH-EP-2	乳白色液体 Milky white liquid	47±2	6-7



## 二甲基硅油乳液

Dimethyl Silicone Oil Emulsion

产品型号 Product Grade	RH-EPB系列
外观 Appearance	乳白色液体 Milky white liquid
固含量 Solid Content, %	<65
PH值 PH Value	6-9

\*可根据客户需求做适当调整。

\*Can be adjusted according to detailed requirements.





## 复合材料脱模剂

Mold Release for Composite Materials

产品型号 Product Grade	RH-8230HH	RH-8207HH B	RH-8207HH A
外观 Appearance	无色透明液体 Transparent colorless liquid	淡蓝色液体 Light blue liquid	淡蓝色液体 Light blue liquid
粘度 Viscosity, 25°C, cP	<10	<10	20~30
比重 Density(25°C)	0.85-0.9	0.85-0.9	0.75-0.85
有效成分 Active composition	20% or 5%	5%	3%
耐热温度 Heat Resistance, °C	275°C	320°C	400°C
重涂性 Recoatability	一般 Normal	好 Good	一般 Normal
润滑性 Lubricity	好 Good	好 Good	一般 Normal
制件光泽度 Part Gloss	好 Good	一般 Normal	好 Good
模具腐蚀性 Mold Corrosion	无 None	无 None	无 None
脱模力 Mold Release Force	低 Low	中等 Middle	低 Low
成膜性 Film Formality	一般 Normal	好 Good	好 Good

## 经营网络

### Business Network

润禾不断开拓新的市场，不断做大做强，创品牌、树形象；在全国各地建立了完善的营销网络，拥有稳定优质的客户群，并且凭借优良的品质及完善的服务成功打入国际市场，产品远销美国、俄罗斯、印度、巴西等国家，在业界享有较高的声誉。

Runhe continues to open up new markets, continues to grow bigger and stronger, creates a brand and establishes an image; Runhe has established a comprehensive marketing network and stable high-quality customer base across the country, and has successfully entered the international market with excellent quality and service. Runhe products are exported to the United States, Russia, India, Brazil and other countries and enjoy a high reputation in the industry.



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