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# 企业介绍

## Company Introduction

香港匯和實業有限公司，专业从事橡胶和化工原料的供应链服务和进出口贸易。凭借下属子公司栖霞鲁峰工贸有限公司、烟台煊博新材料科技有限公司多年的生产经验和行业资源积累，本公司致力于快速成为全球领先的橡胶及化工原料综合服务提供商。

HONGKONG HEWITT INDUSTRIAL CO., LTD. is specialized in the supply chain service and import/export trading of rubber and chemical raw materials. With years of production experience and industry resource accumulated by sub-companies QIXIA LUFENG INDUSTRY AND TRADE CO., LTD. and YANTAI XUANBO NEW MATERIAL TECHNOLOGY CO., LTD., HONGKONG HEWITT is committed to quickly becoming a global leading comprehensive service provider of rubber chemical.

本公司总投资超过1亿元，在山东拥有2个生产基地、1个仓储物流中心和1个研发团队，并拥有全球在线销售网络。近年来，公司持续加大对先进生产设备、信息技术系统和海外市场开发的投入，不断提升产品质量和全球供应链服务能力。

With a total investment of more than 100 million, we have 2 production plants, 1 warehousing and logistics center and 1 R&D team in Shandong Province, China, as well as a global online marketing network. In recent years, we have continued to increase investment in advanced manufacturing equipment, information technology systems and global market development, continuously improving product quality and global supply chain service capabilities.



经过多年的不断发展，本公司逐步形成了以橡胶和化工为核心的多元化产品结构。栖霞鲁峰工贸有限公司及烟台煊博新材料科技有限公司年产各类橡胶助剂超过5万吨，包括橡胶粘合剂、抗撕裂助剂、加工助剂、补强剂、防老剂等；青岛汇和橡化有限公司和青岛狮途轮胎有限公司同时经营橡胶、石化、轮胎等大宗商品以及快消品，客户遍布全球。此外，我们希望积极推动工业和全球价值链的转型，从而为更加可持续的未来做出贡献。

With continuous development in many years, we have formed a diversified product structure with rubber and chemical as the core. LUFENG and XUANBO produce more than 50,000t of various rubber additives annually, including rubber tackifiers, anti-tear agents, processing additives, rubber reinforcers, anti-aging additives, airtightness additives, etc.; QINGDAO HEWITT RUBBER CHEMICAL SUPPLY CHAIN CO., LTD. and QINGDAO LIONSHEAD TYRE CO., LTD. both deal in bulk commodities such as rubber, petrochemicals, tires, and fast-moving consumer goods, with customers all over the world. At the same time, we are willing to actively shape the transformation of industry and the global value chains and thus contribute to a more sustainable future.

## 价值观

### Hewitt Values

卓越品质 Excellent Quality

科技创新 Technological Innovation

客户至上 Customer First

可持续发展 Sustainable Development



## 粘合剂

### RUBBER TACKIFIERS

#### 产品名称

Product Name

#### 产品简述

Brief

# 1

**SY-1206**

增粘树脂，初始粘性好。  
Tackifying resin, with good initial adhesiveness.

P1

**SY-1309**

增粘树脂，粘合持久性好。  
Tackifying resin, with good adhesion durability.

P2

**ST-500**

超级增粘树脂，优异的初始粘性与粘合持久性。  
Super tackifying resin, with excellent initial adhesiveness and adhesion durability.

P3

**STK**

乙炔增粘树脂，增粘效果极佳。  
Acetylene tackifying resin, with excellent tackifying effect.

P4

**SYQ-2**

粘合剂，提高橡胶与骨架材料的粘合强度。  
Tackifier, which improves the adhesive strength between rubber and skeleton materials.

P5

**AH-100**

粘合剂，间甲树脂，提高橡胶与骨架材料的粘合强度。  
Tackifier, resorcinol formaldehyde resin, which improves the adhesive strength between rubber and skeleton materials.

P6

**R-80**

粘合剂，间苯二酚复合材料，提高橡胶与骨架材料的粘合强度。  
Tackifier, resorcinol composite material, which improves the adhesive strength between rubber and skeleton materials.

P7

**PW-60**

粘合抗氧化剂，促进金属粘合，提高抗老化性能。  
Multifunctional additive with tackifying and antioxidant properties, promoting the bonding with metal materials and anti-aging properties.

P8

**SKM-1**

增粘稳定剂，提高橡胶与骨架材料的粘合强度。  
Tackifier, which improves the adhesive strength between rubber and skeleton materials.

P9



## 补强剂

### RUBBER REINFORCERS

产品名称 Product Name	产品简述 Brief	2
N338	高耐磨炭黑，补强性能良好。 High abrasion carbon black, with good reinforcing properties.	P10
N667	通用炭黑，补强性能良好。 General purpose carbon black, with good reinforcing properties.	P11
SY-6700/6701	补强树脂，显著提高胶料的强度和硬度。 Reinforcing resin, which significantly improves the strength and hardness of the rubber.	P12

## 抗撕裂剂

### ANTI-TEAR AGENTS

产品名称 Product Name	产品简述 Brief	3
KSL-1	抗撕裂树脂，解决橡胶撕裂、磨损问题。 Anti-tear resin, which solves problems of rubber tearing and wearing.	P13
KSL-2	抗撕裂树脂，提高橡胶制品的抗撕裂、抗切割、抗碎屑脱落、抗崩花掉块等性能。 Anti-tear resin, which improves rubber tear resistance, cutting resistance, chipping resistance, and breakage resistance.	P14
KS-60	抗撕裂模量剂，可降低胶料的密度，降低成本。 Anti-tear modulus agent, which reduces the density of the rubber compound and save costs.	P15



## 防老剂

### ANTI-AGING ADDITIVES

产品名称 Product Name	产品简述 Brief	4
6PPD (4020)	防老剂，抗氧化、抗臭氧。 Anti-aging additive, antioxidant and anti-ozone.	P16
TMQ (RD)	防老剂，抗热氧。 Anti-aging additive, resistant to heat and oxygen aging.	P17
SMQ	防老剂，抗氧化、抗臭氧，性能优异，降低成本。 Anti-aging additive, antioxidant and anti-ozone, with excellent performance, lower costs.	P18

## 气密性助剂

### AIRTIGHTNESS ADDITIVES

产品名称 Product Name	产品简述 Brief	5
SQM-1	气密性助剂，有助于减少气体渗透。 Airtightness agent, which reduces air penetration.	P19
MT-IIR	MT-IIR气密胶是基于轮胎橡胶配方特研的纳米复合弹性体，可部分代替原胶，如溴化丁基胶。 MT-IIR is a nanocomposite elastomer based on tire rubber formula, which can partially replace the rubber in the formula, such as BIIR.	P20



## 加工助剂及其它

### PROCESSING ADDITIVES

产品名称 Product Name	产品简述 Brief	6
SPS	抑制喷霜剂，有效吸附胶料中的过剩配合剂。 Anti-frosting agent, which effectively absorbs excess additives in the rubber compound.	P21
SNT-2	橡胶内脱模剂，提高离模效果。 Rubber internal release agent, which improves the release effect.	P22
SNB-3	分散剂，加快配合剂分散速度，提升分散均匀性。 Rubber dispersant, which speeds up the dispersion of additives and improves its uniform dispersion.	P23
P-11	环保塑解剂，提高塑炼效率。 Eco-friendly peptizer, which improves the efficiency of plasticizing.	P24
P-40	环保塑解剂，提高塑炼效率。 Eco-friendly peptizer, which improves the efficiency of plasticizing.	P25
A-86	环保塑解剂，提高塑炼效率。 Eco-friendly peptizer, which improves the efficiency of plasticizing.	P26
SJ-103	塑解剂，提高塑炼效率。 Peptizer, which improves the efficiency of plasticizing.	P27



## 增粘树脂 SY-1206

### 检测项目

Test Items

### 检测指标

Test Results

### 检测标准

Test Standards

软化点 (环球法)  
Softening Point (Ring &  
Ball Apparatus)

90-105°C

GB/T 11409

灰分 (550 ± 25°C)  
Ash (550 ± 25°C)

≤ 0.5%

GB/T 11409

加热减量 (65°C)  
Heating Loss (65°C)

≤ 0.5%

GB/T 11409

**性质:** 热塑性特辛基苯酚甲醛树脂，对叔辛基苯酚甲醛树脂。

**性能:** 赋予胶料极佳的初始粘性，具有优异的存放粘性和湿热粘性。在胶料加工过程中兼具软化剂和增塑剂的作用。

**应用:** 用于制造轮胎、输送带、橡胶水坝等要求未硫化成型粘性较高的橡胶制品。

**Properties:** P-tert-octylphenol formaldehyde resin.

**Performance:** Give the rubber compound excellent initial adhesiveness, storage adhesiveness and heat-humidity adhesiveness. Act as a softener and plasticizer during the rubber processing.

**Application:** Be used to manufacture tires, conveyor belts, rubber dams and other rubber products that require high unvulcanized viscosity.





## 增粘树脂 SY-1309

### 检测项目

Test Items

### 检测指标

Test Results

### 检测标准

Test Standards

软化点 (环球法)  
Softening Point (Ring &  
Ball Apparatus)

110-130°C

GB/T 11409

灰分 (550°C)  
Ash (550°C)

≤ 0.5%

GB/T 11409

加热减量 (65°C)  
Heating Loss (65°C)

≤ 0.5%

/

**性质:** 热塑性改性叔丁基苯酚甲醛树脂。

**性能:** 降低胶料的门尼粘度，改善胶料的自粘性，具有长效、耐湿、高增粘特性。

**应用:** 用于制造轮胎、输送带、橡胶水坝等要求未硫化成型粘性较高的橡胶制品。

**Properties:** Thermoplastic modified tert-butylphenol formaldehyde resin.

**Performance:** Can reduce the Mooney viscosity of the rubber compound, improve the self-adhesiveness of the rubber, and have long-lasting, moisture-resistant, and high adhesiveness-increasing properties.

**Application:** Be used to manufacture tires, conveyor belts, rubber dams and other rubber products that require high unvulcanized adhesiveness.



## 超级增粘树脂 ST-500

检测项目 Test Items	检测指标 Test Results	检测标准 Test Standards
相对密度 Relative Density	1.155 g/cm <sup>3</sup>	/
软化点 (环球法) Softening Point (Ring & Ball Apparatus)	100-130°C	/
灰分 (550°C) Ash (550°C)	≤ 0.5%	GB/T 11409
加热减量 (65°C) Heating Loss (65°C)	≤ 0.5%	GB/T 11409

**性质:** 改性烷基苯酚甲醛树脂。

**性能:** 具有强厌水性，能提高橡胶半成品部件的初始粘性和粘性保持期。

**应用:** 用于制造轮胎、输送带、橡胶水坝等要求未硫化成型粘性较高的橡胶制品。

**Properties:** Modified alkylphenol formaldehyde resin.

**Performance:** Have strong hydrophobicity and can improve the initial adhesiveness and adhesion retention period of rubber semi-finished parts.

**Application:** Be used to manufacture tires, conveyor belts, rubber dams and other rubber products that require high unvulcanized adhesion.





## 乙炔增粘树脂 STK

检测项目 Test Items	检测指标 Test Results	检测标准 Test Standards
软化点 (环球法) Softening Point (Ring & Ball Apparatus)	135–150°C	GB/T 11409
灰分 Ash	≤ 0.5%	GB/T 11409
加热减量 (105°C) Heating Loss (105°C)	≤ 0.5%	GB/T 11409
密度 Density	1.02–1.04 g/cm <sup>3</sup>	/

**性质:** 丁基苯酚和乙炔的缩合物，溶解于烃类化合物。

**性能:** 赋予胶料极佳的初始粘性，具有优异的存放粘性和湿热粘性，其粘性可持续几周。

**应用:** 用于制造轮胎、输送带、橡胶水坝等要求未硫化成型粘性较高的橡胶制品。

**Properties:** Condensate of butylphenol and acetylene, soluble in hydrocarbon compounds.

**Performance:** Give the rubber compound excellent initial adhesiveness, storage adhesiveness and heat-humidity adhesiveness, which can last for several weeks.

**Application:** Be used to manufacture tires, conveyor belts, rubber dams and other rubber products that require high unvulcanized adhesiveness.

## 粘合剂 SYQ-2



### 检测项目

Test Items

### 检测指标

Test Results

### 检测标准

Test Standards

外观  
Appearance

浅黄色至红褐色粉末  
Light yellow to reddish brown powder

GB/T 11409

加热减量 (65℃)  
Heating Loss (65℃)

≤ 4%

GB/T 11409

PH

7-10

GB/T 11409

灰分 (550℃)  
Ash (550℃)

≤ 10%

GB/T 11409

**性质:** 金属氧化物与过氧化物多元反应的产物。

**性能:** 提高橡胶与骨架材料粘合强度，使产品更适应高负荷下使用，延长产品使用寿命。

**应用:** 用于制造轮胎、输送带、橡胶水坝等橡胶制品，提高橡胶与帘布的粘合强度。

**Properties:** The product of multi-reaction of metal oxides and peroxides.

**Performance:** Improve the adhesive strength between rubber and skeleton materials, making the product more suitable for use under high loads and extending the service life of the product.

**Application:** Be used to manufacture rubber products such as tires, conveyor belts, rubber dams, and improves the adhesive strength between rubber and cord fabrics.





## 粘剂 AH-100

### 检测项目

Test Items

### 检测指标

Test Results

### 检测标准

Test Standards

检测项目 Test Items	检测指标 Test Results	检测标准 Test Standards
外观 Appearance	红棕色至黑棕色颗粒 Reddish brown to dark brown particles	GB/T 11409
软化点（环球法） Softening Point (Ring & Ball Apparatus)	90-110℃	GB/T 11409
加减量 Heating Loss	≤ 0.5%	GB/T 11409
灰分 Ash	≤ 0.5%	GB/T 11409

**性质:** 间苯二酚、间苯二酚多聚体以及苯乙烯与甲醛反应的产物。

**性能:** 减少混炼中的刺激性烟雾和粉尘，提高橡胶与骨架材料的粘合强度，提高帘线附胶率。

**应用:** 用于橡胶与纤维织物或镀铜和镀锌钢丝的黏合，制造轮胎、输送带、橡胶水坝等橡胶制品。

**Properties:** Products of the reaction between resorcinol, resorcinol polymers, styrene and formaldehyde.

**Performance:** Reduce irritating smoke and dust during mixing, improving the adhesive strength between rubber and skeleton materials, as well as the rubber attachment rate of cord.

**Application:** Be used for bonding rubber to fiber fabrics or brass-plated and galvanized steel wires, and for manufacturing rubber products such as tires, conveyor belts, and rubber dams.

## 粘合剂 R-80

检测项目 Test Items	检测指标 Test Results	检测标准 Test Standards
外观 Appearance	白色至红色颗粒 White to red granules	/
有效成分含量 Active Constituent Content	$\geq 80\%$	/
加热减量 (65°C) Heating Loss (65°C)	$\leq 0.5\%$	GB/T 11409

**性质:** 间苯二酚复合材料。

**性能:** 减少混炼中的刺激性烟雾，提高橡胶与骨架材料的粘合强度，提高帘线附胶率。

**应用:** 用于橡胶与纤维织物或镀铜和镀锌钢丝的黏合，制造轮胎、输送带、橡胶水坝等橡胶制品。

**Properties:** Resorcinol composite material.

**Performance:** Reduce irritating smoke during mixing, improving the adhesive strength between rubber and skeleton materials, as well as the rubber attachment rate of cord.

**Application:** Be used for bonding rubber to fiber fabrics or brass-plated and galvanized steel wires, and for manufacturing rubber products such as tires, conveyor belts, and rubber dams.



## 粘合抗氧化剂 PW-60

### 检测项目

Test Items

### 检测指标

Test Results

外观  
Appearance

浅褐色至黑色颗粒  
Light brown to black particles

有效成分含量  
Effective Content

≥ 60%

加热减量 (65℃)  
Heating Loss (65℃)

≤ 6.0%

**性质:** 丙酮和RT培司高温反应生成的酮胺类化合物。

**性能:** 减少混炼中的刺激性烟雾，提高橡胶与骨架材料的粘合强度，提高帘线附胶率。

**应用:** 用于轮胎胎体胶料、带束层胶料及粘合胶片胶、胎圈钢丝配方等，也可作单独的抗热氧、抗屈挠防护助剂使用。

**Properties:** Ketoamine compounds generated by high temperature reaction of acetone and p-aminodiphenylamine.

**Performance:** Reduce irritating smoke during mixing, improving the adhesive strength between rubber and skeleton materials, as well as the rubber attachment rate of cord.

**Application:** Be used in tire carcass rubber compound, belt rubber, adhesive film rubber, bead wire formula, etc., also be used as a separate anti-thermal oxidation and anti-flex protection agent.





## 增粘稳定剂 SKM-1

### 检测项目

Test Items

### 检测指标

Test Results

### 检测标准

Test Standards

外观  
Appearance

黄色至红褐色粉末  
Yellow to reddish brown powder

/

PH

6.0-10.0

/

加热减量  
Heating Loss

≤ 4.0%

GB/T 11409

灰分 (550℃)  
Ash (550℃)

≤ 10.0%

GB/T 11409

**性质:** 间甲白体系与硅铝盐类复合物。

**性能:** 提高橡胶与骨架材料粘合强度，使产品更适应高负荷下使用，延长产品使用寿命。

**应用:** 用于制造轮胎、输送带、橡胶水坝等橡胶制品，提高橡胶与帘布的粘合强度。

**Properties:** The compound of resorcinol-formaldehyde-silica adhesion system and aluminosilicate.

**Performance:** Improve the adhesive strength between rubber and skeleton materials, making the product more suitable for use under high loads and extending the service life of the product.

**Application:** Be used to manufacture rubber products such as tires, conveyor belts, rubber dams, and improve the adhesive strength between rubber and cord fabrics.

# 炭黑 N338

## 检测项目

Test Items

## 检测指标

Test Results

## 检测标准

Test Standards

拉伸强度 Tensile Strength MPa	≥ 19.5	GB/T3780.18-2017
拉断伸长率 Elongation at Break	≥ 450	GB/T3780.18-2017
300% 定伸应力 Se (Stress at a Given Elongation MPa)	≥ 8.0	GB/T3780.18-2017
DBP吸收值 $10^{-5}m^3/kg$	80	GB/T3780.8-2008
加热减量 (125°C) Heating Loss (125°C)	2%	GB/T3780.10-2017
Ash (825°C)	21%	GB/T3780.21-2016
筛余物 Residue on 150 μ m Sieve	≤ 0.046	GB/T3780.6-2016

**性质:** 高耐磨炉黑。

**性能:** 补强性能良好，赋予胶料较好的拉伸性能、抗撕裂性能、耐磨性和弹性。

**应用:** 用于轮胎、胶管、运输带、橡胶水坝等橡胶制品以及模压制品。

**Properties:** High abrasion furnace black.

**Performance:** Have good reinforcing properties and gives the rubber good tensile properties, tear resistance, abrasion resistance and elasticity.

**Application:** Be used in rubber products and molded products such as tires, rubber ducts, conveyor belts, and rubber dams.

# 炭黑 N667

检测项目 Test Items	检测指标 Test Results	检测标准 Test Standards
拉伸强度 Tensile Strength MPa	≥ 18.3	GB/T3780.18-2017
拉断伸长率 Elongation at Break	≥ 432	GB/T3780.18-2017
300% 定伸应力 Se (Stress at a Given Elongation MPa)	≥ 7.6	GB/T3780.18-2017
DBP吸收值 $10^{-5} \text{ m}^3/\text{kg}$	70	GB/T3780.8-2008
加热减量 (125°C) Heating Loss (125°C)	2%	GB/T3780.10-2017
灰分 (825°C) Ash (825°C)	21%	GB/T3780.21-2016
筛余物 Residue on 150 $\mu\text{m}$ Sieve	≤ 0.046	GB/T3780.6-2016

**性质:** 通用炉黑。

**性能:** 补强性能良好, 使胶料变形小、生热低、分散性能好、附着性能强。

**应用:** 用于轮胎、胶管、运输带、橡胶水坝等橡胶制品以及模压制品。

**Properties:** General purpose furnace black.

**Performance:** Have good reinforcing properties, providing rubber compound with small deformation, low heat generation, good dispersion performance and strong adhesion performance.

**Application:** Be used in rubber products and molded products such as tires, rubber ducts, conveyor belts, and rubber dams.





## 补强树脂 SY-6700/6701

### 检测项目

Test Items

### 检测指标

Test Results

### 检测标准

Test Standards

软化点 (环球法)  
Softening Point (Ring &  
Ball Apparatus)

85-105°C

GB/T 11409

加热减量  
Heating Loss

≤ 0.5%

GB/T 11409

灰分 (550 ± 25°C)  
Ash (550 ± 25°C)

≤ 0.5%

GB/T 11409

**性质:** SY-6700为妥儿油改性苯酚甲醛树脂；SY-6701为腰果油改性苯酚甲醛树脂。

**性能:** 能显著提高胶料的硬度、耐磨性、抗撕裂、拉伸强度与定伸应力。SY-6700焦烧时间长，加工安全；SY-6701模量高，硬度高。

**应用:** 多用于子午线轮胎，改善硫化胶的强度硬度，降低生热量。

**Properties:** SY-6700 is a phenol-formaldehyde resin modified by tallow oil; SY-6701 is a phenol-formaldehyde resin modified by cashew nut oil.

**Performance:** Can significantly improve the hardness, wear resistance, tear resistance, tensile strength and elongation stress of the rubber compound. SY-6700 has a long scorching time and is safe to process; SY-6701 has high modulus and high hardness.

**Application:** Mostly be used in radial tires to improve the strength and hardness of vulcanized rubber and reduce heat generation.



## 抗撕裂树脂 KSL-1

检测项目 Test Items	检测指标 Test Results	检测标准 Test Standards
软化点（环球法） Softening Point (Ring & Ball Apparatus)	90-110 °C	GB/T 11409
加热减量 Heating Loss	≤ 0.5%	GB/T 11409
灰分 Ash	≤ 0.5%	GB/T 11409

**性质：**烯氢同类产品，呈棕黄色片状或粒状。

**性能：**可有效解决胶料动态粘性以及橡胶的撕裂、磨损等问题，提高胎胚成型质量及成品性能。同时具有增塑剂和软化剂作用。

**应用：**主要用于合成胶用量大且要求加工性能好的橡胶制品，如轮胎、运输带、胶管、水坝、胶辊等橡胶制品，尤其用于子午胎。

**Properties:** A similar product of olefin hydrogen, brown flakes or granules.

**Performance:** Can effectively solve the problems of dynamic viscosity, tearing and wear resistance of rubber compound, and improve the quality of tire blank and final products. Also have the functions as plasticizer and softener.

**Application:** Mainly be used for rubber products that require large amounts of synthetic rubber and good processing performance, such as tires, conveyor belts, hoses, dams, rubber rollers, etc.



## 抗撕裂树脂 KSL-2

检测项目 Test Items	检测指标 Test Results	检测标准 Test Standards
软化点 (环球法) Softening Point (Ring & Ball Apparatus)	90-120 °C	GB/T 11409
加热减量 Heating Loss	≤ 0.5%	GB/T 11409
灰分 Ash	≤ 0.5%	GB/T 11409

**性质:** 苯酚和烯氢聚合产品，呈棕黄褐色片状或粒状。

**性能:** 可提高胶料动态粘性以及橡胶的抗撕裂、抗切割、抗碎屑脱落、抗崩花掉块等性能。同时具有增塑剂和软化剂作用。

**应用:** 主要用于合成胶用量大且要求加工性能好的橡胶制品，尤其是轮胎胎面和橡胶履带。

**Properties:** A product of phenol and olefin hydrogen polymerization, yellow-brown flakes or granules.

**Performance:** Can improve the dynamic viscosity, tear resistance, cutting resistance, chipping resistance, and breakage resistance of rubber compound. Also have the functions as plasticizer and softener.

**Application:** Mainly be used for rubber products with large amounts of synthetic rubber and good processing performance, especially for tire treads and rubber tracks.





## 抗撕裂模量剂 KS-60

### 检测项目

Test Items

### 检测指标

Test Results

### 检测标准

Test Standards

外观  
Appearance

黑色颗粒  
Black particles

/

有效成分  
Effective Content

≥ 60%

/

加热减量  
Heating Loss

≤ 0.5%

GB/T 11409

**性质:** 酚醛改性硅类化合物。

**性能:** 不仅能提高酚类聚合物和烯烃类在胶料中的分散性，降低胶料的密度，降低成本；还能减少混炼操作中的刺激性烟雾。

**应用:** 用于制造轮胎、输送带、水坝、胶管等橡胶制品。

**Properties:** Phenolic modified silicon compounds.

**Performance:** Can not only improve the dispersibility of the phenolic polymer and olefins in the rubber compound, reducing the density of the rubber compound to save costs, but also reduce the irritating smoke in the mixing process.

**Application:** Be used to manufacture rubber products such as tires, conveyor belts, dams, and hoses.



## 6PPD (4020)

### 检测项目

Test Items

### 检测指标

Test Results

外观 Appearance	紫褐色颗粒 Purple-brown granules
有效成分 Effective Content	≥ 97.0%
熔点 (初熔) Initial M.P.	≥ 45.0 °C
结晶点 Freezing Point	≥ 46.0 °C
加热减量 Heating Loss	≤ 0.3%
灰分 (550 ± 25°C) Ash (550 ± 25°C)	≤ 0.3%

**性质:** N-1,3-二甲基丁基-N'-苯基对苯二胺。

**功能:** 可以赋予橡胶材料优异的抗臭氧、抗疲劳、抗屈挠性能，与橡胶的相容性好，污染性低，挥发性较小。

**应用:** 适用于天然胶和合成胶的橡胶配方；可应用于轮胎、传送带、胶管、电缆、橡胶水坝等需要动静态抗氧、抗臭氧防护的橡胶制品。

**Properties:** N-1,3-dimethylbutyl-N'-phenyl-p-phenylenediamine.

**Performance:** Can provide rubber materials excellent performance of anti-ozone, anti-fatigue and anti-flexing. Have good compatibility with rubber, with low pollution and low volatility.

**Application:** Suitable for rubber formula of natural and synthetic rubber, can be applied to tires, conveyor belts, rubber ducts, cables, rubber dams, etc., which need dynamic and static antioxidant and ozone protection.



## TMQ (RD)

### 检测项目

Test Items

### 检测指标

Test Results

外观  
Appearance

琥珀色至棕色颗粒  
Amber to brown powder

有效体含量（二、三聚体总量）(HPLC)  
Total Content of Dimer and Trimer (HPLC)

≥ 50%

异丙基二苯胺含量 (HPLC)  
Total Content of Isopropyl Diphenylamine (HPLC)

≤ 0.2%

软化点（环球法）  
Softening Point (Ring & Ball Apparatus)

85–105 °C

加热减量 (65° C)  
Heating Loss (65° C)

≤ 0.5%

灰分 (550 ± 25°C)  
Ash (550 ± 25°C)

≤ 0.5%

**性质:** 2,2,4-三甲基-1,2-二氢化喹啉聚合物。琥珀色至棕色粉末，无毒。

**性能:** 是抗热氧化性能优异的一种通用型喹啉类防老剂，挥发性低、污染小。

**应用:** 各种轮胎、胶管、胶带、水坝、胶鞋、胶布制品及其它一般工业橡胶制品，也可以用于乳胶制品。

**Properties:** 2,2,4-Trimethyl-1,2-dihydroquinoline polymer, amber to brown powder, non-toxic.

**Performance:** A universal quinoline antioxidant with excellent anti-heat and oxygen aging performance in rubber industry, with low volatility and low pollution.

**Application:** Be used in all kinds of tyres, hoses, tapes, dams, rubber shoes, rubber cloth products and other general industrial rubber products, can also be used for latex products.





SMQ

检测项目

Test Items

检测指标

Test Results

外观  
Appearance

琥珀至棕色颗粒  
Amber to brown granules

软化点 (环球法)  
Softening Point (Ring & Ball Apparatus)

85-105 °C

加热减量  
Heating Loss

≤ 0.5%

灰分  
Ash

≤ 0.5%

**性质:** 改性喹啉聚合物，琥珀色至棕色粉末，无毒。

**性能:** 可以赋予橡胶材料优异的抗臭氧、抗疲劳、抗屈挠性能。长期防护效果好，和橡胶的相容性更好，具有增塑剂和软化剂功能。

**应用:** 在橡胶制品中，SMQ可以完全替代TMQ，起到降低成本不降低性能的效果。

**Properties:** Modified quinoline polymer, amber to brown powder, non-toxic.

**Performance:** Can provide rubber materials excellent anti-ozone, anti-fatigue, anti-flexing properties. Have better long-term protective performance and better compatibility with rubber, also providing functions as plasticizer and softener.

**Application:** In rubber products, SMQ can completely replace TMQ, reducing cost without decreasing the performance.



## 气密保持剂 SQM-1

### 检测项目

Test Items

### 检测指标

Test Results

### 检测标准

Test Standards

外观  
Appearance

黄色粉末  
Yellow powder

/

PH

6.0-10.0

/

加热减量 (65°C)  
Heating Loss (65°C)

≤ 5.0%

GB/T 11409

灰分 (550 ± 25°C)  
Ash (550 ± 25°C)

≤ 12.0%

GB/T 11409

**性质:** 从无机盐类中提炼的具有层状鳞片结构的气体阻隔材料。

**性能:** 可填充微小的孔隙、裂缝或接缝，减少气体渗透或泄漏，在常温下相对稳定。

**应用:** 应用于要求稳定气密性的橡胶制品，能加快各种助剂的分散和混炼，降低能耗。可用于内胎和子午线轮胎气密层。

**Properties:** Air barrier material with layered scale structure extracted from inorganic salts.

**Performance:** Can fill tiny pores, cracks or seams and reduce gas permeation or leakage, relatively keep stable at room temperature.

**Application:** Applied to rubber products that require stable airtightness. Can accelerate the dispersion and mixing of various additives and reduce energy consumption. Can be used in inner tubes and radial tire airtight layers.



## MT-IIR 气密封胶

检测项目 Test Items	检测指标 Test Results	检测标准 Test Standards
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外观 Appearance	灰色或黑板状 Grey or black plates	/
密度 Density	$\leq 1.4 \text{ g/cm}^3$	GB/T 533-2008
加热减量 Heating Loss	$\leq 5.0\%$	GB/T 3780.8-2019
灰分 Ash	$\leq 50\%$	GB/T 4998.1-2013

**性质:** 一种基于轮胎橡胶复合体的纳米复合弹性体。

**性能:** 是一种聚合物/纳米复合材料，在橡胶工业产品中能改善气密性和物理机械性能。

**应用:** 在无内胎PCR/TBR/MCR/IDR气密层中，可部分代替溴化丁基胶。

**Properties:** A nano-composite elastomer based on tire rubber compound.

**Performance:** A Polymer/nano-composite, which can improve the airtightness and physical and mechanical properties of rubber.

**Application:** In the sealant compound of tubeless PCR/TBR/MCR/IDR, MT-IIR can be partially substituted for BIIR.



## 抑制喷霜剂 SPS

### 检测项目

Test Items

### 检测指标

Test Results

外观  
Appearance

白色至浅灰色粉末  
White to light gray powder

加热减量  
Heating Loss

≤ 3.0%

灰分  
Ash

≤ 10.0%

**性质:** 多孔吸附捕捉剂和增溶结合剂的复合物。

**性能:** 拥有独特的微观多孔吸附结构体，能够有效吸附胶料中的过剩配合剂，使其稳定在胶料的硫化网络结构中而不易迁移。

**应用:** 可用于天然胶和各类合成橡胶配方，特别适用于三元乙丙胶制品和鞋材等。对于硫磺硫化体系和过氧化物硫化体系均能适用。本品不变色，无污染，可用于浅色制品。

**Properties:** A complex of porous adsorption capture agent and solubilizing binding agent.

**Performance:** Have a unique microscopic porous adsorption structure, can effectively adsorb the excess additives in the rubber compound and keep them within the vulcanization network structure without migrating.

**Application:** Be used in natural rubber and all kinds of synthetic rubber formulations, especially suitable for EPDM rubber products and shoe materials, etc. Can be applied to sulfur vulcanization system and peroxide vulcanization system. Have good color fastness, with no pollution, can be used for light-colored products.





## 内脱模剂 SNT-2

### 检测项目

Test Items

### 检测指标

Test Results

外观  
Appearance

浅黄色或奶油色颗粒  
Pale yellow or creamy white  
cylindrical (or hemispherical) granules

熔点  
Melting Point

80-120 °C

灰分  
Ash

≤ 8.5%

加热减量  
Heating Loss

≤ 3.0%

**性质:** 由饱和脂肪酸，高分子量有机硅树脂及高碳醇组成的混合物。

**性能:** 具有内外润滑性和离模功能的橡胶、橡塑材料内脱模剂，可用于复杂模具和注模硫化制品。能有效改善胶料在模腔内的流动性，降低质量缺陷概率。

**应用:** 主要用于天然橡胶、各种不饱和合成橡胶（除氟橡胶和硅橡胶）和各类热塑性弹性体制品的生产，例如轮胎、胶管胶带、水坝等。

**Properties:** A mixture of saturated fatty acids, high molecular weight silicone resins and high carbon alcohols.

**Performance:** An internal mold release agent for rubber and rubber-plastic materials with internal and external lubricity and mold release functions. Can be used for complex molds and injection molded vulcanized products to improve the fluidity of the rubber compound in the mold and reduce the probability of quality defects.

**Application:** Mainly be used in the production of natural rubber, all kinds of unsaturated synthetic rubber (except fluorine rubber and silicone rubber) and all kinds of thermoplastic elastomer products, such as tires, hoses and tapes, dams, etc.



## 分散剂 SNB-3

### 检测项目 Test Items

### 检测指标 Test Results

外观 Appearance	棕黑色颗粒 Brownish black granules
密度 Density	1.0–1.2 g/cm <sup>3</sup>
软化点 Softening Point	90–110 °C
灰分 Ash	≤ 1.0%
加热减量 Heating Loss	≤ 1.0%

**性质:** 由多种化学品经过物理和化学反应形成的一种新型产品。

**性能:** 可提高炭黑在胶料中的分散、加快炭黑在橡胶加工过程的分散速度；提高橡胶混合料的压出、压延等工艺性能；能提高硫磺在胶料中的均匀分散，防止胶料胶烧；降低胶料的混合黏度；提高硫化胶的硬度、耐磨性能。

**应用:** 本产品适用于橡胶加工，如子午胎、斜胶胎、胶带、水坝、电缆等。

**Properties:** A new type of product formed by a variety of chemicals through physical and chemical reactions.

**Performance:** Can improve the dispersion of carbon black in rubber compound, accelerate the dispersion speed of carbon black in rubber processing; improve the process performance of rubber mixes such as pressing out, calendaring, etc; improve the uniform dispersion of sulfur in rubber and prevent rubber from burning; decrease the mixing viscosity of rubber; increase the hardness and wear-resistant performance of vulcanized rubber.

**Application:** Suitable for rubber processing, such as radial tires, bias tires, belts, dams, cables, etc.



## 塑解剂 P-11

### 检测项目

Test Items

### 检测指标

Test Results

外观 Appearance	蓝色至墨绿色片状 Blue to dark green flakes
P-22含量 P-22 Content	$40.0 \pm 2.0\%$
灰分 Ash	$\leq 28 \pm 4.0\%$
加热减量 Heating Loss	$\leq 0.5\%$

**性质:** 2,2'-二苯甲酰氨基二苯基二硫化物，合成活性剂，惰性载体和有机分散剂的混合物。

**性能:** DBD的衍生产品，在塑炼过程中能催化分子链的断裂，缩短塑炼的时间，减少能耗。与传统粉末状塑解剂相比，在加工性能和工作环境上有很大改善，符合欧盟REACH的环保要求。能自由流动，适于自动称量。

**应用:** 天然胶和不饱和合成胶在开炼机或密炼机上进行塑炼时加入，可以提高塑炼效率，在70℃以上塑炼有效果，在120-150℃时效果最好。

**Properties:** 2,2'-dibenzamido diphenyl disulfide, dithio-bisbenzanilide, active agents, inert carrier and organic dispersants.

**Performance:** A derivative product of DBD. Can promote the molecular chains to break and reduce the milling time, so decreasing the cost. Compared with powder peptizers, it has greatly improved processing performance and working environment, and meets the environmental protection requirements of EU REACH. Can flow freely and suitable for automatic weighing.

**Application:** Specially formulated peptizer suitable as mastication aids in a variety of processing conditions for nature rubber or unsaturated synthetic rubber. Can enhance the milling efficiency evidently at processing temperature over 70℃, and at 120 to 150 °C, the effect is the best.



## 塑解剂 P-40

### 检测项目

Test Items

### 检测指标

Test Results

外观 Appearance	蓝色至墨绿色片状 Blue to dark green flakes
熔点 Melting Point	$\geq 54^{\circ}\text{C}$
灰分 Ash	$\leq 0.5\%$
加热减量 Heating Loss	$\leq 0.5\%$

**性质:** 2,2'-二苯甲酰氨基二苯基二硫化物，合成活性剂，惰性载体和有机分散剂的混合物。

**性能:** DBD的衍生产品，在塑炼过程中能催化分子链的断裂，缩短塑炼的时间，减少能耗。与传统粉末状塑解剂相比，在加工性能和工作环境上有很大改善，符合欧盟REACH的环保要求。能自由流动，适于自动称量。

**应用:** 天然胶和不饱和合成胶在开炼机或密炼机上进行塑炼时加入，可以提高塑炼效率，在70℃以上塑炼有效果，在120-150℃时效果最好。

**Properties:** 2,2'-dibenzamido diphenyl disulfide, dithio-bisbenzanilide, active agents, inert carrier and organic dispersants.

**Performance:** A derivative product of DBD. Can promote the molecular chains to break and reduce the milling time, so decreasing the cost. Compared with powder peptizers, it has greatly improved processing performance and working environment, and meets the environmental protection requirements of EU REACH. Can flow freely and suitable for automatic weighing.

**Application:** Specially formulated peptizer suitable as mastication aids in a variety of processing conditions for nature rubber or unsaturated synthetic rubber. Can enhance the milling efficiency evidently at processing temperature over 70℃, and at 120 to 150 °C, the effect is the best.





## 塑解剂 A-86

### 检测项目

Test Items

### 检测指标

Test Results

外观 Appearance	蓝色至墨绿色片状 Blue to dark green flakes
熔点 Melting Point	50-60℃
灰分 Ash	16-18%
加热减量 Heating Loss	≤ 0.5%

**性质:** 2,2'-二苯甲酰氨基二苯基二硫化物，合成活性剂，惰性载体和有机分散剂的混合物。

**性能:** DBD的衍生产品，在塑炼过程中能催化分子链的断裂，缩短塑炼的时间，减少能耗。与传统粉末状塑解剂相比，在加工性能和工作环境上有很大改善，符合欧盟REACH的环保要求。能自由流动，适于自动称量。

**应用:** 天然胶和不饱和合成胶在开炼机或密炼机上进行塑炼时加入，可以提高塑炼效率，在70℃以上塑炼有效果，在120-150℃时效果最好。

**Properties:** 2,2'-dibenzamido diphenyl disulfide, dithio-bisbenzanilide, active agents, inert carrier and organic dispersants.

**Performance:** A derivative product of DBD. Can promote the molecular chains to break and reduce the milling time, so decreasing the cost. Compared with powder peptizers, it has greatly improved processing performance and working environment, and meets the environmental protection requirements of EU REACH. Can flow freely and suitable for automatic weighing.

**Application:** Specially formulated peptizer suitable as mastication aids in a variety of processing conditions for nature rubber or unsaturated synthetic rubber. Can enhance the milling efficiency evidently at processing temperature over 70℃, and at 120 to 150℃, the effect is the best.



## 塑解剂 SJ-103

### 检测项目

Test Items

### 检测指标

Test Results

外观 Appearance	浅灰色或浅黄色粉末 Pale gray or pale yellow powder
灰分(650 ± 25°C, 2h) Ash (650 ± 25°C, 2h)	≤ 50%
筛余物 Residue on 150 μ m Sieve	≤ 1%
加热减量 (65 ± 2°C, 2h) Heating Loss (65 ± 2°C, 2h)	≤ 1%

**性质:** 硫酚类塑解剂，合成活性剂，惰性载体和有机分散剂的混合物。

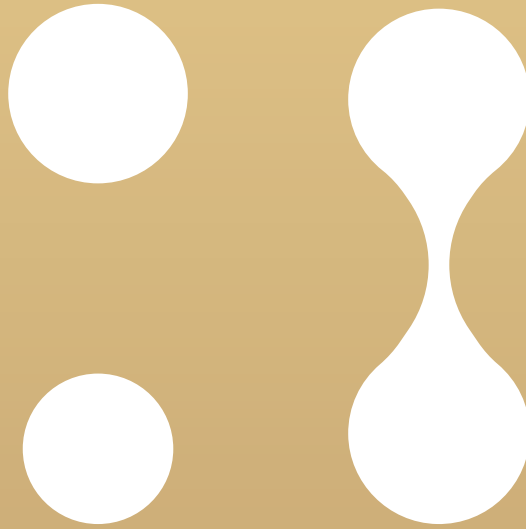
**性能:** 能提高橡胶塑炼的可塑度和塑炼效率，可缩短塑炼时间三分之一左右，高效节能。性能同雷那西-7(RENACIT-VII)相当。

**应用:** 本品可在塑炼时单独加入，也可以与促进剂M、DM同时加入，一定要在加硫黄和炭黑之前加入。

**Properties:** Thiophenol type of peptizer, active agents, insert carrier and organic disnersants.

**Performance:** Corresponding to the product RENACIT-VII, a type of high efficiency and energy saving product. Can reduce approximate 1/3 of milling time.

**Application:** Be added separately in plasticizing, or added together with accelerator M, DM. Must be added before adding sulfur and carbon black.



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