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宁夏煤业产品服务手册
Product Service Manual of Ningxia Coal Industry Co., Ltd.

煤制油化工产品
Coal-to-Liquids Chemical Products

公司简介

Company Profile

国家能源集团宁夏煤业有限责任公司是国家能源集团和宁夏回族自治区合资合作组建的大型综合国有能源企业。注册资本211.1亿元，其中国家能源集团占51%，宁夏国有资产运营集团公司占49%，资产总额1387亿元。

CHN Energy Ningxia Coal Industry Co., Ltd. is a large-scale comprehensive state-owned energy enterprise jointly established by CHN Energy and Ningxia Hui Autonomous Region. The registered capital of the Company is 21.11 billion yuan, of which CHN Energy accounts for 51% and NingXia State-owned Capital Operation Group accounts for 49%, with total assets of 138.7 billion yuan.

公司主营煤炭和煤制油化工，经营范围涉及煤炭洗选、机械加工制造与维修、新能源、能源工程建设、现代物流等。煤炭板块现有生产建设矿井14对，主要生产无烟煤、焦煤、动力煤，核定产能8120万吨/年，生产能力6500万吨/年。煤制油化工板块已建成世界级、国内最大煤制油化工基地，主要生产油化品、聚烯烃、甲醇，产能规模超过1000万吨/年。现代物流产业以宁东铁路为基础，初步构建起公铁一体的大物流大运输体系。2022年，煤炭供应总量突破1亿吨，煤制油化工产品产量1212万吨。

The Company is specialized in coal and coal-to-liquids chemicals with the business covering coal preparation, mechanical processing, manufacturing and repair, new energy, energy engineering construction, modern logistics, etc. For the coal sector, currently, Ningxia Coal Industry Co., Ltd. has 14 pairs of production and construction mines, mainly producing anthracite, coking coal, and thermal coal, with the approved production capacity of 81.2 million tons/year and the production capacity of 65 million tons/year. For the coal-to-liquids chemical sector, Ningxia Coal Industry Co., Ltd. has built a world-class and domestic largest coal-to-liquids chemical base, mainly producing oleochemicals, polyolefins and methanol, with the production capacity exceeding 10 million tons/year. For the modern logistics industry, based on the Ningdong Railway, Ningxia Coal Industry Co., Ltd. has preliminarily built a large-scale logistics and transportation system integrating road and railway. In 2022, the total coal supply exceeded 100 million tons, and the output of coal-to-liquid chemicals reached 12.12 million tons.

公司先后荣获全国文明单位、“五一”劳动奖状、民族进步模范单位，以及中央企业先进基层党组织等荣誉称号，连续十一年获评煤炭行业“AAA”级信用企业。400万吨/年煤制油项目获国家科技进步一等奖，连续七年获国家专利奖，“一种旋流干煤粉气化炉”专利获十九届中国专利金奖。

The Company has successively won the titles of National Civilized Unit, "May Day" Labor Certificate of Merit, National Progress Model Unit, and Advanced Grassroots Party Organization of Central Enterprises, and has been rated as a "AAA" Credit Enterprise in the coal industry for eleven consecutive years. The 4 million tons/year coal-to-liquids project won the First Prize of National Science and Technology Progress Award, and won the China Patent Award for seven consecutive years. The patent for "A Cyclone Dry Coal Pulverized Gasifier" won the 19th China Patent Gold Award.

1387亿元

资产总额

138.7 billion yuan
Total assets

1亿吨

煤炭供应总量突破

100 million tons
Total coal supply

1212万吨

煤制油化工产品产量

12.12 million tons
Output of coal-to-liquid
chemical product

宁煤聚丙烯装置引进美国ABBlummus公司的Novolen气相立式搅挫床工艺合成技术,采用Ziengler-Natta型高效催化剂,通过MTP反应合成丙烯单体,再聚合生产聚丙烯。有煤制聚丙烯项目1套(年产50万吨)、甲醇制聚丙烯项目1套(年产50万吨),可以生产均聚物、嵌段共聚物、无规共聚物三种类型的聚丙烯产品牌号共计93个。同时,宁夏煤业还有石脑油裂解制聚丙烯项目1套(年产60万吨)。该产品可用于扁丝、薄膜、日用品、管材、纤维、无纺布、家电、汽车配件等制品的生产。

Ningxia Coal Industry has introduced the Novolen gas-phase vertical stirred bed process synthesis technology of the American company ABBLUMUS for the polypropylene unit, which adopts Ziegler-Natta type high-efficiency catalyst to synthesize propylene monomer through MTP reaction, and then polymerizes to produce polypropylene. Currently, polypropylene unit possesses one coal-to-polypropylene project (annual output of 500,000 tons) and one methanol-to-polypropylene project (annual output of 500,000 tons), which is able to produce three types and a total of 93 polypropylene product grades of homopolymers, block copolymers and random copolymers. In addition, Ningxia Coal Industry also possesses one naphtha cracking polypropylene production project (annual output of 600,000 tons). This product can be used in the production of products such as flat yarn, film, daily necessities, pipes, fibers, non-woven fabrics, home appliances, auto parts etc.

宁煤聚丙烯均聚物具有刚性强、等规度高等特点,可用于编织袋、BOPP薄膜、胶带膜、生活用品、一次性餐盒、医用防护用品等制品的加工;聚丙烯嵌段共聚物具有抗冲击性能强、弯曲模量高等特点,可用于冷热水管、板材棒材、蓄电池壳、农具、汽车、洗衣机童车配件等制品的加工;聚丙烯无规共聚物具有透明度好、初韧平衡性佳等特点,可用于整理箱、透明餐盒、洗衣机、冰箱配件等制品的加工。

The polypropylene homopolymer of Ningxia Coal Industry has the characteristics of strong rigidity and high isotacticity, and can be used for the processing of woven bags, BOPP films, tape films, daily necessities, disposable meal boxes, medical and health protection products etc.; The polypropylene block copolymer has the characteristics of strong impact resistance and high bending modulus, and can be used for the processing of hot and cold water pipes, plates and rods, battery housings, agricultural tools, automobiles, washing machine and baby carriage accessories etc.; The polypropylene random copolymer has the characteristics of good transparency, excellent rigidity and toughness balance and can be used for the processing of storage boxes, transparent meal boxes, washing machines and refrigerator accessories etc.



聚丙烯均聚物 Polypropylene homopolymer

牌号Grade	1102K	1103K	1100N	1101S	1101SC	S2040	1040TE
熔体质量流动速率 (g/10min) Melt flow rate	3.4±1.0	3.2±0.95	12.0±3.6	24.0±7.0	35.0±10.0	40.0±5.0	70.0±10.0
灰分 (mg/kg) Ash content	≤300	≤500	≤500	≤300	≤300	≤300	≤500
拉伸屈服应力 (MPa) Tensile yield stress	≥29.0	≥28.0	≥30.0	≥29.0	≥29.0	≥30.0	≥35.0
弯曲模量 (MPa) Bending modulus	/	/	≥1000	/	/	/	≥1500
拉伸弹性模量 (MPa) Tensile modulus	/	/	/	/	/	≥1200	/
拉伸断裂标称应变 (%) Tensile fracture nominal strain	≥180	/	/	/	/	/	/
黄色指数 Yellow index	≤4.0	≤4.0	≤0	≤4.0	≤4.0	≤1.0	≤0
雾度 (%) Haze	/	≤6.0	/	/	/	/	/
等规度 (%) Isotacticity	≥95.5	≥94.0	≥95.0	/	/	≥96.0	≥95.0
特性 Property	通用拉丝料 Common drawing material	加工性能佳 Excellent processing performance	强度佳/ 中流动性 Good processability/ coloring stability	加工性好/ 着色稳定性好 High fluidity/ good coloring stability	高流动性/ 着色稳定性好 High fluidity/ good coloring stability	高流动性/ 着色稳定性好 High fluidity/ good coloring stability	高流动性/ 刚性和耐热性好 High fluidity/ High fluidity/ rigidity and good heat resistance
用途 Application	挤出片材/扁丝 Extruded sheet/flatwire	BOPP专用 BOPP exclusive	桌椅板凳/ 家用器皿/ 日用品 Tables/ chairs/ benches/ household utensils/ daily necessities	纤维丝/ 地毯长丝 Fibersilk/ non-woven fabric	纤维丝/ 无纺布 Fibersilk/ non-woven fabric	纤维丝/ 无纺布 Fibersilk/ non-woven fabric	一次性餐盒/ 大型薄壁包装制品 Disposable lunchboxes/ large thin-walled packaging products

聚丙烯嵌段共聚物 Polypropylene block copolymer

牌号Grade	2500HY	2043N	2240S	2312E	2448T
熔体质量流动速率 (g/10min) Melt flow rate	2.0±0.6	9.0±2.0	30.0±5.0	0.3±0.15	55.0±10.0
灰分 (mg/kg) Ash content	/	≤500	≤400	≤500	≤500
拉伸屈服应力 (MPa) Tensile yield stress	≥19.0	≥19.0	≥24.0	≥23.0	/
弯曲模量 (MPa) Bending modulus	/	≥900	≥900	≥700	≥900
简支梁缺口冲击强度 (23°C) (kJ/m²) Charpy Notched Impact Strength	/	/	≥6.0	≥50.0	/
简支梁缺口冲击强度 (-20°C) (kJ/m²) Charpy Notched Impact Strength	/	≥4.0	≥3.0	≥4.0	/
黄色指数 Yellow index	≤4.0	≤0	≤0	≤4.0	≤0
特性 Property	高抗冲/ 低流动性 High impact resistance/ low liquidity	高抗冲/ 中流动性 High impact resistance/ medium fluidity	中抗冲/ 高流动性/ 刚韧平衡性佳 Medium impact resistance/ high fluidity/ good balance- between rigidity and toughness	高抗冲/ 低流动性 High impact resistance/ low liquidity	中抗冲 Medium impact resistance
用途 Application	汽车蓄电池壳/ 涂料桶/ 管材/ 板材/ 摩托车部件 Automotive battery shell/ paint bucket/ pipe/sheet/ motorcycle parts	注塑/ 涂料桶/ 摩托车部件/ 家电部件 Injection molding/ paint bucket/ motorcycle parts/ household appliance parts	注塑/涂料桶/ 摩托车部件/ 家电部件 Injection molding/ paint bucket/ motorcycle parts/ household appliance parts	挤出级/ PP-B/冷水管材/ 板材 Extrusion grade/ PP-B cold water pipes/ plates	汽车蓄电池壳/ 涂料桶/ 家电部件 Automotive battery casing/ paint bucket/ home appliance components

聚丙烯无规共聚物 Polypropylene random copolymer

牌号Grade	3240NC	3248R	3240R	3212E	K4860	K4860M
熔体质量流动速率 (g/10min) Melt flow rate	15	23	8	0.3	65	65
灰分 (mg/kg) Ash content	/	/	/	/	/	/
拉伸屈服应力 (MPa) Tensile yield stress	≥26	≥29	≥25	≥26	≥22	≥22
弯曲模量 (MPa) Bending modulus	≥1000	≥1000	≥800	≥800	≥800	≥800
简支梁缺口冲击强度 (-20°C) (kJ/m²) Charpy Notched Impact Strength	≥6	≥6	≥6	≥20	≥2.8	≥3.0
简支梁缺口冲击强度 (-20°C) (kJ/m²) Charpy Notched Impact Strength	≤0	≤0	≤0	≤0	≤0	≤0
黄色指数 Yellow index	≤10	≤10	≤10	≤10	≤20	/
特性 Property	高透明度 High transparency	高流动性/ 高透明度 High liquidity/ transparency	透明性佳/ 热封性佳 Good transparency/ heat sealing	耐热性好/ 耐水解性好 Good heat resistance/ hydrolysis resistance	高流动性 High Flow	高流动性 High Flow
用途 Application	保鲜盒/ 整理箱/ 医用卫生器皿 Fresh preservation box/ organizing box/ medical sanitary ware	家用器皿/ 整理箱 Household utensils/ sorting boxes	CPP专用/ 食品包装复合薄膜 CPP specific/ food packaging composite film	PP-R管材专用 PP-R pipe dedicated	奶茶杯/ 透明整理箱 Milk tea cup/ transparent sorting box	磨砂奶茶杯/透 明整理箱 Frosted milk tea cup/ transparent sorting box

宁煤聚乙烯 Polyethylene of Ningxia Coal Industry

产品介绍 Introduction to the Product

宁煤聚乙烯装置采用美国UNIVATION公司UNIPOL聚乙烯气相法合成工艺技术,以乙烯为原料,将丁烯-1或己烯-1作为共聚单体,通过在一定温度和压力下反应聚合生成聚乙烯产品,装置设计产能为45万吨/年。该产品可用于农地膜、包装膜、果筐、汽车改性料等产品的生产。

Ningxia Coal Industry adopts the UNIPOL polyethylene gas-phase synthesis technology of the United States UNVATION Company for the polyethylene unit, which uses ethylene as the raw material and butene-1 or hexene-1 as the comonomer to generate polyethylene through reaction and polymerization at a certain temperature and pressure. The design capacity of the unit is 450,000 tons/year. This product can be used for the production of products such as agricultural mulch films, packaging films, fruit baskets, automobile modified materials etc.

产品实力 Product Strength

宁煤聚乙烯产品具有拉伸强度高、易加工、开口性适中及耐热氧化性强等特点,在农地膜、缠绕膜、棚膜、果筐、改性料等应用领域受到了市场的一致认可和青睐。同时,该产品已被国内多家行业领先的改性工厂使用,使该产品在城市管网建设、汽车零部件加工及电缆制造行业得到了良好应用。

The polyethylene products of Ningxia Coal Industry have the characteristics of high tensile strength, easy processing, moderate anti-blocking property and strong thermal oxidation resistance, and have been unanimously recognized by the market in application fields such as agricultural mulch film, wrapping film, greenhouse film, fruit baskets, and modified materials.In addition, this product has been used by many domestic industry-leading factories of modified materials, and this product has been well applied in urban pipe network construction, auto parts processing and cable manufacturing industries.



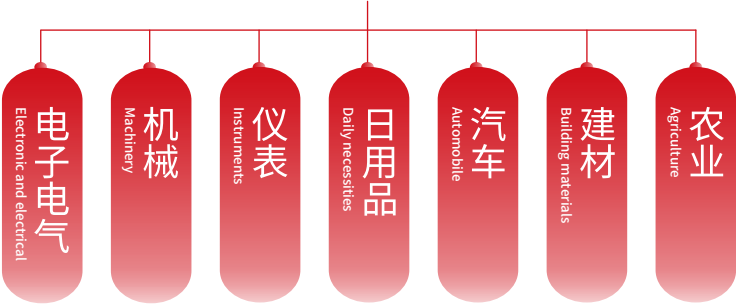
牌号Grade	线性低密度聚乙烯 (LLDPE) DFDA-7042 Linear low density polyethylene	线性低密度聚乙烯 (LLDPE) DFDC-7050H Linear low density polyethylene	高密度聚乙烯 (HDPE) DMDA-8008 High density polyethylene	高密度聚乙烯 (HDPE) DGDX-6094 High density polyethylene
熔体质量流动速率 (g/10min) Melt flow rate	2.0±0.5	2.0±0.5	7.0±1.0	1.0±0.2
密度 (g/cm³) density	0.920±0.003	0.921±0.003	0.956±0.002	0.951±0.002
拉伸屈服应力 (MPa) Tensile yield stress	≥8.00	≥7.00	≥24.0	≥21.0
拉伸断裂应力 (MPa) Tensile fracture stress	≥12.5	≥200	/	≥12.5
拉伸断裂标称应变 (%) Tensile fracture nominal strain	≥400	≥200	/	≥500
简支梁缺口冲击强度 (23°C) (kJ/m²) Charpy Notched Impact Strength	/	/	/	/
雾度 (%) Haze	≤30	/	/	/
鱼眼 (0.8mm)(个/1520cm²) fisheye	/	≤8	/	/
鱼眼 (0.4mm)(个/1520cm²) fisheye	/	≤40	/	/
特性 Property	高透明度/ 高强度 High transparency/ high intensity	高透明度/高强度 High transparency/high intensity	中流动性 Medium liquidity	强度佳 Excellent strength
用途 Application	吹塑薄膜复合农膜内衬 Blow molded film composite- agricultural film lining	吹塑薄膜外包装袋/ 产品包装袋 Blow molded film outer packaging bags/ product packaging bags	注塑级/板条箱/ 容器/箱柜 Injection molding grade/ Flat noodles/container/case	拉丝级/ 渔网/ 遮阳网/ 包装绳 Wire drawing grade/ fishing net/ shading net/ packaging rope

产品介绍 Introduction to the Product

宁煤聚甲醛装置采用香港富艺合成工艺技术,装置设计产能6万吨/年,为国内单套产能最大的煤制聚甲醛项目。该项目目前已产出12个聚甲醛产品牌号,产品被广泛用于电子电气.机械.仪表、日用品、汽车、建材、农业等领域制品的生产。

Ningxia Coal Industry adopts Hong Kong BLUE DIAMOND synthetic process technology for the polyformaldehyde. With the designed production capacity of 60,000 tons/year, it is the largest coal-to-polyformaldehyde project in China with highest production capacity of single unit. Currently, the project has produced 12 polyformaldehyde product grades, which are widely used for the production of products in industries such as electronics, machinery, instruments, daily necessities, automobiles, building materials, agriculture etc.

应用 Application



产品实力 Product Strength

宁煤聚甲醛产品具有加工性能好、刚性强、抗冲击性能佳等特点,可用于塑料拉链、齿轮、汽车童车、家电部件、管材管件等制品的加工,该产品已通过了FDA、RoHS.EN71和REACH等多项检测认证,受到了市场的广泛认可与好评。

The polyformaldehyde products of Ningxia Coal Industry have the characteristics of good processing performance, strong rigidity and good impact resistance, and can be used for the processing of plastic zippers, gears, automobiles, baby carriages, home appliance parts, pipes and fittings, etc. The product has passed testing and certifications such as FDA, RoHS.EN71, REACH and so on, and have been widely recognized and praised by the market.



牌号Grade	MC90	MC90-44	MC90-LV
熔体质量流动速率 (g/10min) Melt flow rate	9.0±1.2	9.0±1.0	9.0±1.2
简支梁缺口冲击强度 (23°C) (kJ/m²) Charpy Notched Impact Strength	≥5.5	≥6.0	≥5.5
弯曲强度 (MPa) bending strength	≥80.0	≥82	≥80.0
拉伸强度 (MPa) tensile strength	≥60.0	≥62	≥58.0
拉伸断裂标称应变 (%) Tensile fracture nominal strain	≥30	≥35	≥30
拉伸弹性模量 (MPa) Tensile modulus of elasticity	≥2600	≥2600	≥2400
特性 Property	低翘曲性/ 刚性良好 Low warpage/ good rigidity	低翘曲性/ 加工性能佳 Low warpage/ excellent processing performance	低翘曲性/ 加工性能佳 Low warpage/ excellent processing performance
用途 Application	挤出板材/棒材/ 卡扣/ 拉链/ 齿轮 Extruded sheet/ bar/ buckle/ zipper/ gear	挤出板材/ 棒材/ 卡扣/ 拉链/ 齿轮 Extruded sheet/ bar/ buckle/ zipper/ gear	拉链/ 注塑成型耐磨机械零部件 Zipper/ injection molded wear- resistant mechanical components

煤基车用柴油组分油

Coal-based automotive diesel component oil

产品介绍 Introduction to the Product

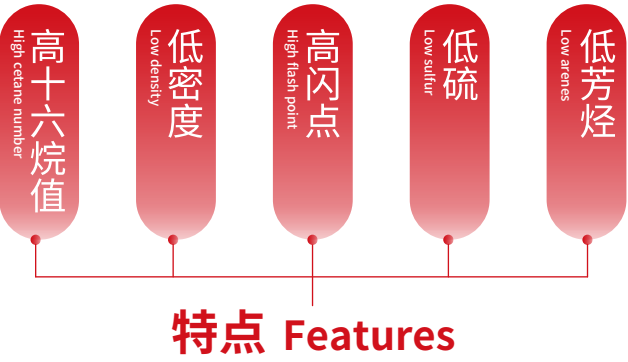
煤基车用柴油组分油产自于宁夏煤业400万吨/年煤制油装置,具有高十六烷值、低密度、高闪点、低硫及低芳经等特点,是一款国六车用柴油的优质调和原料。

Coal-based vehicle diesel component oil is produced by the 4 million tons/year coal-to-liquids unit of Ningxia Coal Industry, and has the characteristics of high cetane number, low density, high flash point, low sulfur and low arenes. It is a high-quality blending raw material for National VI vehicle diesel.

产品实力 Product Strength

在国内同类柴油组分油中,宁夏煤业煤基车用柴油组分油占据主导地位,市场占有率第一,在西北地区具备较强影响力。

Among similar domestic diesel component oils, the coal-based automotive diesel component oil of Ningxia Coal Industry occupies a dominant position, with the market share ranking first, and boasts strong influence in the northwest region.



煤基车用柴油组分油 Coal-based automotive diesel component oil		
指标 Indicator	项目 Item	技术指标 Technical indicators
	色度, 号 Chrominance, color number	<0.5
	氧化安定性 (以总不溶物计), mg/100mL Oxidation stability (as total insoluble substances), mg/100mL	2.2
	硫含量, mg/kg Sulfur content, mg/kg	<1.0
	酸度 (KOH计), mgKOH/100mL Acidity (as KOH), mgKOH/100mL	未检出 Not detectible
	10%蒸余物残炭, % (m/m) 10% carbon residue after evaporation, % (m/m)	未检出 Not detectible
	灰分, % (m/m) Ash content, % (m/m)	未检出 Not detectible
	铜片腐蚀 (50℃, 3h) ,级 Copper corrosion (50℃, 3h), grade	1a
	水分%, (v/v) Moisture %, (v/v)	/
	总污染物含量, mg/kg Total pollutant content, mg/kg	<12.0
	润滑性 校正磨痕直径 (60℃), μm Lubricity corrected wear scar diameter (60℃), μm	596
	运动粘度 (20℃), mm²/s Kinematic viscosity (20℃), mm²/s	4.885
	凝点, °C Freezing point, °C	-14
	冷滤点, °C Cold filter plugging point, °C	-6
	闪点 (闭口), °C Flash point (closed), °C	72
	十六烷指数 Cetane index	77
	50%回收温度, °C 50% recovery temperature, °C	290
	90%回收温度, °C 90% recovery temperature, °C	337
	95%回收温度, °C 95% recovery temperature, °C	352
	多环芳烃含量 (质量分数), % (m/m) Polycyclic aromatic hydrocarbons content (mass fraction), % (m/m)	<0.1
用途 Purpose	密度 (20℃), kg/m³ Density (20℃), kg/m³	778
	主要用于国六车用柴油调和 It is mainly used for blending National VI vehicle diesel fuel	

煤基费托合成粗液体蜡1#

Coal-based Fischer-Tropsch synthetic crude liquid wax 1#

煤基费托合成粗液体蜡1# Coal-based Fischer-Tropsch synthetic crude liquid wax 1#		
指标 Indicator	项目 Item	技术指标 Technical indicators
	正构烷烃，%（m/m） n-alkanes, % (m/m)	93.7
	溴指数，mgBr/100g Bromine index, mgBr/100g	8.4
	芳烃含量，%（m/m） Aromatic hydrocarbon content, % (m/m)	0.006
	硫含量，mg/kg Sulfur content, mg/kg	<1.0
	酸度，mg/100ml Acidity, mg/100ml	未检出 Not detectible
	机械杂质，%（m/m） Mechanical impurities, % (m/m)	/
	流程 初馏点，℃ Distillation range initial boiling point, °C	283
	流程 98%（体积分数）馏出温度，℃ Distillation range 98% (volume fraction) distillation temperature, °C	304
	赛波特颜色号，赛波特号 Saybolt color number, Saybolt number	+30
	水含量平均值，%（v/v） Average water content, % (v/v)	/
用途 Purpose	烷烃含量，%（m/m） Alkane content, % (m/m)	99.9
	主要用于生产环保型氯化石蜡 It is mainly used for the production of eco-friendly chlorinated paraffin	

煤基费托合成粗液体蜡1#（中间罐区） Coal-based Fischer-Tropsch synthetic crude liquid wax 1# (intermediate tank area)		
指标 Indicator	项目 Item	技术指标 Technical indicators
	赛波特颜色，赛波特号 Saybot color, Saybot number	+30
	馏程 初馏点，℃ Distillation range initial boiling point, °C	169
	馏程 98%（体积分数）馏出温度，℃ Distillation range 98% (volume fraction) distillation temperature, °C	241.5
	正构烷烃，%（m/m） n-alkanes, % (m/m)	95.3
	烷烃含量，%（m/m） Alkane content, % (m/m)	99.9
	芳烃含量，%（m/m） Aromatic hydrocarbon content, % (m/m)	0.004
	硫含量，mg/kg Sulfur content, mg/kg	<1.0
	溴指数，mgBr/100g Bromine index, mgBr/100g	4.9
	酸度（以KOH计），mg/100ml Acidity (as KOH), mg/100ml	未检出 Not detectible
	水分，%（v/v） Moisture, % (v/v)	/
用途 Purpose	机械杂质，%（m/m） Mechanical impurities, % (m/m)	/
	用于氯化石蜡、单碳烷烃切割等行业 It is used in industries such as chlorinated paraffin and single-carbon alkanes cutting	

煤基费托合成粗液体蜡2#

Coal-based Fischer-Tropsch synthetic crude liquid wax 2#

煤基费托合成粗液体蜡2# Coal-based Fischer-Tropsch synthetic crude liquid wax 2#		
指标 Indicator	项目 Item	技术指标 Technical indicators
	赛波特颜色，赛波特号 Saybot color, Saybot number	+30
	馏程 初馏点，℃ Distillation range initial boiling point, °C	168
	馏程 98%（体积分数）馏出温度，℃ Distillation range 98% (volume fraction) distillation temperature, °C	297
	正构烷烃，%（m/m） n-alkanes, % (m/m)	66
	烷烃含量，%（m/m） Alkane content, % (m/m)	99.9
	芳烃含量，%（m/m） Aromatic hydrocarbon content, % (m/m)	0.02
	硫含量，mg/kg Sulfur content, mg/kg	≤1.0
	溴指数，mgBr/100g Bromine index, mgBr/100g	8.6
	酸度（以KOH计），mg/100ml Acidity (as KOH), mg/100ml	未检出 Not detectible
	水分，%（v/v） Moisture, % (v/v)	/
备注 Remarks	机械杂质，%（m/m） Mechanical impurities, % (m/m)	/
	闪点（闭口）：68℃；凝点：-18；密度（20℃）：754kg/m³ Flash point (closed): 68℃; Freezing point: -18; Density (20℃): 754kg/m³	
用途 Purpose	用于氯化石蜡、单碳切割等行业 It is used in chlorinated paraffin, single carbon cutting and other industries	

煤基费托合成重质液体蜡2#

Coal-based Fischer-Tropsch synthesis heavy liquid wax 2#

产品介绍 Introduction to the Product

煤基费托合成重质液体蜡2#采用减压精馏的生产工艺, 产品正构烷烃含量达到94%以上, 碳十三及以下含量小于0.1%, 是生产环保氯化石蜡的主要原料, 环保氯化石蜡主要应用于高端增塑剂、塑胶跑道、电缆等领域。

Coal-based Fischer-Tropsch synthetic heavy liquid wax 2# is produced by adopting the production process of vacuum distillation with the n-alkane content of the product exceeding 94%, the content of C13 and below lower than 0.1%. It is the main raw material for the production of eco-friendly chlorinated paraffin. Eco-friendly chlorinated paraffin is mainly used in the fields such as high-end plasticizers, plastic runways, cables etc.



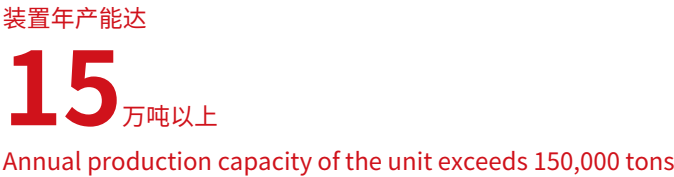
国内市场占有率第一

Domestic market share ranks first

产品实力 Product Strength

宁夏煤业煤基费托合成重质液体蜡2#装置年产能达15万吨以上, 在国内市场占有率第一, 与国内主要氯化石蜡生产企业形成稳定合作, 产品质量获得客户高度认可。

The coal-based Fischer-Tropsch synthetic heavy liquid wax 2# unit of Ningxia Coal Industry has an annual production capacity of more than 150,000 tons with the market share ranking first at home. In addition, it has formed stable cooperation with major domestic chlorinated paraffin manufacturers, and its product quality has been highly recognized by customers.



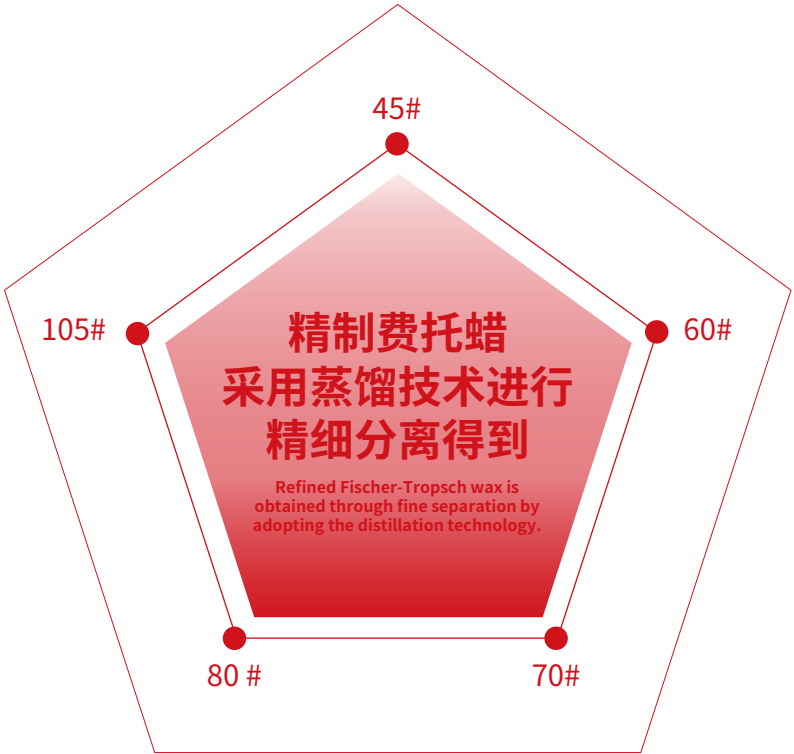
煤基费托合成重质液体蜡2# Coal-based Fischer-Tropsch synthesis heavy liquid wax 2#		
指标 Indicator	项目 Item	技术指标 Technical indicators
	外观 Appearance	无色透明液体 Colorless transparent liquid
	赛波特颜色, 赛波特号 Saybot color, Saybot number	+30
	馏程 初馏点, °C Distillation range initial boiling point, °C	252
	馏程 98% (体积分数) 馏出温度, °C Distillation range 98% (volume fraction) distillation temperature, °C	270
	正构烷烃, % (m/m) n-alkanes, % (m/m)	94.4
	芳烃含量, % (m/m) Aromatic hydrocarbon content, % (m/m)	0.007
	硫含量, mg/kg Sulfur content, mg/kg	<1.0
	溴指数, mgBr/100g Bromine index, mgBr/100g	4.3
	氮含量, mg/kg Nitrogen content, mg/kg	<0.3
	酸度(以KOH计), mg/100mL Acidity (as KOH), mg/100ml	/
	水分, % (v/v) Moisture, % (v/v)	/
	机械杂质 Mechanical impurities	/
	碳十三及以下正构烷烃, % (m/m) n-alkanes with C13 and below, % (m/m)	<0.1
用途 Purpose	主要用于生产环保型氯化石蜡 It is mainly used for the production of eco-friendly chlorinated paraffin	

精制费托蜡 Refined Fischer-Tropsch wax

产品介绍 Introduction to the Product

精致费托蜡是一种亚甲基聚合物,以煤、天然气或生物质为原料,主要作为石蜡、硬脂酸等产品的替代品。宁煤精制费托蜡以煤制油项目精制蜡为原料,采用蒸馏技术进行精细分离得到45#、60#、70#、80#、105#精制费托蜡,以液体、粒装和微珠形态销售。

Refined Fischer-Tropsch wax is a methylene polymer made from coal, natural gas or biomass, and is mainly used as a substitute for products such as paraffin, stearic acid etc.The refined Fischer-Tropsch wax of Ningxia Coal Industry uses the refined wax from the coal-to-liquids project as raw material, and adopts distillation technology to conduct fine separation to obtain 45#, 60#, 70#, 80#, and 105# refined Fischer-Tropsch wax, which are sold in liquid, granular and microbead form.



特点 Features



精制费托蜡主要由相对分子质量在500~1000的直链、饱和的高碳烷烃组成,晶体结构精细具有高熔点、窄熔点范围、低油含量、低针入度、低迁移率、低熔融粘度、坚硬、耐磨及稳定性高的特点。

Refined Fischer-Tropsch wax is mainly composed of linear and saturated high-carbon alkanes with relative molecular mass of 500~1000. It features fine crystal structure and has the characteristics of high melting point, narrow melting point range, low oil content, low penetration, low mobility, low melt viscosity, high hardness, high wear resistance and high stability.

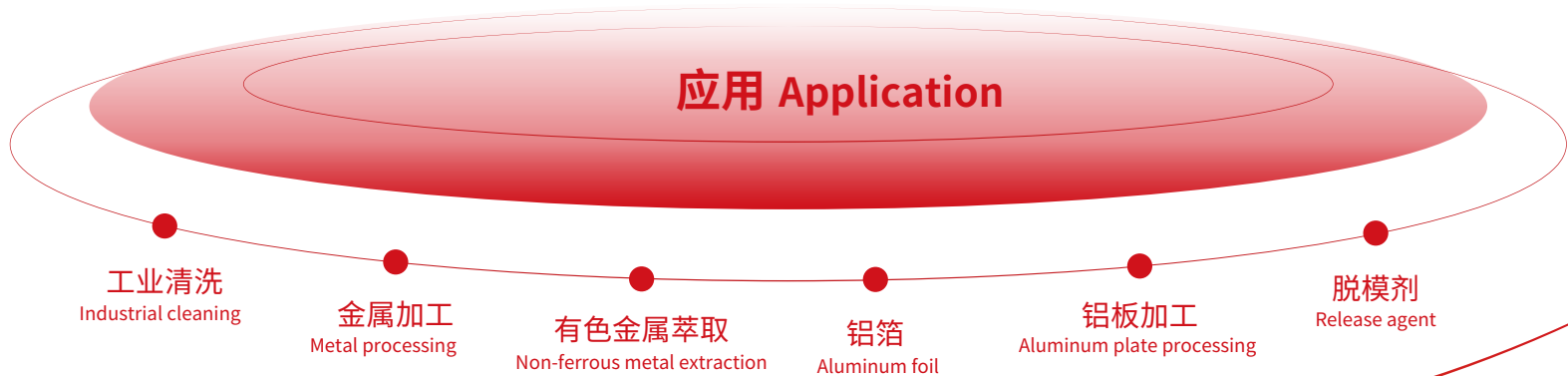
精制费托蜡 Refined Fischer-Tropsch wax						
指标 Indicator	项目 Item	技术指标 Technical indicators				
		45#	60#	70#	80#	105#
	滴熔点, °C Drop melting point, °C	/	实测 Measured value	实测 Measured value	实测 Measured value	/
	熔点, °C Melting point, °C	/	/	/	/	105-110
	凝固点, °C Freezing point, °C	39-45	61-66	70-77	79-84	≥95
	颜色, 赛波特号 Color, Saybolt number	≥20	≥20	≥20	≥20	≥15
	含油量, % Oil content, %	实测 Measured value	≤3	≤2	≤1	≤0.5
	针入度 (25°C) , 0.1mm Penetration (25°C), 0.1mm	实测 Measured value	≤20	≤15	≤15	≤3
	闪点 (闭口) Flash point (closed)	实测 Measured value	/	/	/	/
	外观 Appearance	透明液体 Transparent liquid	白色片状固体 White flaky solid	白色片状固体 White flaky solid	白色片状固体 White flaky solid	白色珠状颗粒 White bead-like particles
用途 Purpose	主要用于PVC 管材、热熔胶、塑内外料润滑、脱模、型材、油墨、涂料、色母粒、橡胶、蜡烛、纺织、食品包装材料、化妆品原料、电子元器件、抛光材料、防水材料等 It is mainly used for PVC pipes, hot melt adhesive, plastic internal and external lubrication, demoulding, profiles, inks, coatings, masterbatch, rubber, candles, textiles, food packaging materials, cosmetic raw materials, electronic components, polishing materials, waterproof materials etc.					

轻质白油 Light white oil

产品介绍 Introduction to the Product

轻质白油属于脱芳烃溶剂油, 依托宁夏煤业公司400万吨/年煤制油装置, 以煤炭为原料, 经气化、净化、费托合成、加氢精制、加氢裂化、精馏等工艺技术加工而成, 具有一定环保性, 广泛应用于工业清洗、金属加工、有色金属萃取、铝箔、铝板加工、脱模剂等。

Light white oil is a dearomatized solvent oil. Relying on the 4 million tons/year coal-to-liquids unit of Ningxia Coal Industry, it is produced with coal as raw material through gasification, purification, Fischer-Tropsch synthesis, hydrotreating, hydrocracking and distillation etc. With certain eco-friendly property, it is widely used for industrial cleaning, metal processing, non-ferrous metal extraction, aluminum foil, aluminum plate processing, release agents, etc.



产品实力 Product Strength

具有异构烷烃含量高、低 硫、低芳烃、低凝点等特 性, 呈水白色, 无毒无味。

It has the characteristics of high isoparaffin content, low sulfur, low aromatics, low freezing point, etc., and is water-white, non-toxic and odorless.

轻质白油 Refined Fischer-Tropsch wax				
指标 Indicator	项目 Item	技术指标 Technical indicators		
		W1-60	W2-80	W2-100
	流程 初馏点, °C Distillation range initial boiling point, °C	188	222	245
	流程 终馏点, °C Distillation range final boiling point, °C	210.5	238	256
	闪点 (闭口), °C Flash point (closed), °C	74	92.5	116.5
	运动粘度 (40°C), mm²/s Kinematic viscosity (40°C), mm²/s	1.276	1.694	2.478
	芳烃含量, % (m/m) Aromatic hydrocarbon content, % (m/m)	0.04	0.034	0.019
	密度 (20°C), kg/m³ Density (20°C), kg/m³	751.3	762	771.7
	颜色, 赛波特号 Color, Saybolt number	+30	+30	+30
	硫含量, mg/kg Sulfur content, mg/kg	<1.0	<1.0	<1.0
用途 Purpose	铜片腐蚀 (50°C, 3h) Copper corrosion (50°C, 3h)	1a	1a	1a
	溴指数, mgBr/100g Bromine index, mgBr/100g	20.1	17.2	13.3
主要用于工业清洗、降粘剂、铝箔铝板轧制、有色金属萃取、气雾剂等 It is mainly used for industrial cleaning, viscosity reducing agent, aluminum foil and aluminum plate rolling, non-ferrous metal extraction, aerosol, etc.				

煤基碳十二正构烷烃

Coal-based carbon-12 n-alkanes

产品介绍 Introduction to the Product

煤基碳十二正构烷烃依托宁夏煤业公司400万吨/年煤制油装置,是利用减压精馏的方法对精制常一线组分进行物理切割提质产品,产品纯度达到99.5%以上,产品用于生产十二碳二元酸,十二碳二元酸是生产尼龙1212、尼龙612主要原料,也用于热熔胶、粉末涂料及香料等行业。

Coal-based carbon-12 n-alkanes is produced by the 4 million tons/year coal-to-liquids unit of Ningxia Coal Industry with the product quality improved through physical cutting of the They use the method of vacuum distillation to physically cut and upgrade the purified ordinary pressure first-line components with the product purity exceeds 99.5%. The product is used for the production of dodecanedioic acid, which is the main raw material for the production of nylon 1212 and nylon 612, and is also used in industries such as hot melt adhesives, powder coatings, spices etc.

产品实力 Product Strength

宁夏煤业煤基碳十二正构烷烃装置年产能达2.5万吨,在国内市场占有率第一,与全球主要长链二元酸供应商凯赛生物公司达成战略合作,产品获得客户高度认可。

The coal-based carbon dodeca-n-alkane device of Ningxia Coal Industry has an annual production capacity of 25,000 tons with the market share ranking first at home. It has reached strategic cooperation with Cathay Biotech Inc., a major global long-chain dibasic acid supplier, and the products have been highly recognized by customers.



国内市场占有率第一

Domestic market share ranks first



与凯赛生物公司达成战略合作

Reached strategic cooperation with Cathay Biotech Inc.



产品获得客户高度认可

Products highly recognized by customers

产品纯度

99.5%以上

Product purity More than 99.5%

煤基碳十二正构烷烃装置年产能达

2.5万吨

Annual production capacity of coal-based carbon dodecane n-alkane unit reaches 25,000 tons

煤基碳十二正构烷烃 Coal-based carbon-12 n-alkanes		
指标 Indicator	项目 Item	技术指标 Technical indicators
	赛波特颜色, 赛波特号 Saybot color, Saybot number	+30
	芳烃, %(m/m) Aromatic hydrocarbons, % (m/m)	0.0043
	总硫, mg/kg Total sulfur, mg/kg	<1.0
	溴指数, mgBr/100g Bromine index, mgBr/100g	3.3
	碳十二正构烷烃, %(m/m) Carbon-12 n-alkane, % (m/m)	99.84
	机械杂质, % Mechanical impurities,%	/
	水分 Moisture	/
用途 Purpose	外观 Appearance	透明液体 Transparent liquid
	主要用于生产二元酸 It is mainly used for the production of dibasic acids	

煤基费托合成精制蜡90#

Coal-based Fischer-Tropsch synthetic refined wax 90#

煤基费托合成精制蜡90# Coal-based Fischer-Tropsch synthetic refined wax 90#		
指标 Indicator	项目 Item	技术指标 Technical indicators
	含油量，% Oil content, %	1.6
	针入度（25℃） Penetration (25℃)	5
	软化点，℃ Softening point, °C	99.8
	滴熔点，℃ Drop melting point, °C	97.7
	铁含量 Iron content	3.77
用途 Purpose	用于生产蜡制品，可作为PVC管材内外润滑剂，用于色母粒、PE蜡添加剂 It is used for the production of wax products, and can be used as an internal and external lubricant for PVC pipes, and used as color masterbatch and PE wax additives	

煤基费托合成重质蜡

Coal-based Fischer-Tropsch synthetic heavy wax

煤基费托合成重质蜡 Coal-based Fischer-Tropsch synthetic heavy wax		
指标 Indicator	项目 Item	技术指标 Technical indicators
	馏程 初馏点，℃ Distillation range initial boiling point, °C	303
	馏程 50%回收温度，℃ Recovery temperature at 50% distillation range, °C	332
	馏程 90%回收温度，℃ Recovery temperature at 90% distillation range, °C	355
	密度（60℃）， kg/m³ Density (60 °C), kg/m³	767.8
	硫含量， mg/kg Sulfur content, mg/kg	<1.0
	正构烷烃， %(m/m) n-alkanes, % (m/m)	94.09
	机械杂质， % Mechanical impurities,%	/
用途 Purpose	水分 Moisture	/
	主要用于生产高粘度氯化石蜡 It is mainly used for the production of high viscosity chlorinated paraffin	

煤基费托合成裂化尾油

Coal-based Fischer-Tropsch synthetic cracking tail oil

煤基费托合成裂化尾油 Coal-based Fischer-Tropsch synthetic heavy wax		
指标 Indicator	项目 Item	技术指标 Technical indicators
	闪点（开口），℃ Flash point (open cup), °C	226
	铁含量，mg/kg Iron content, mg/kg	2.67
	凝点，℃ Freezing point,°C	45
	运动粘度（100℃），mm²/s Kinematic viscosity (100°C), mm²/s	9.076
	5%馏出温度，℃ 5% distillation temperature, °C	351
	总氮，mg/kg Total nitrogen, mg/kg	<2.0
	水分 Moisture	/
	硫含量， mg/kg Sulfur content, mg/kg	<2.0
用途 Purpose	生产三类基础油原料 It is mainly used for the production of Class III base oil raw materials	

煤基费托合成软蜡

Coal-based Fischer-Tropsch synthetic soft wax

煤基费托合成软蜡 Coal-based Fischer-Tropsch synthetic soft wax		
指标 Indicator	项目 Item	技术指标 Technical indicators
	正构烷烃，%（m/m） n-alkanes, % (m/m)	89
	硫含量，mg/kg Sulfur content, mg/kg	<1.0
	水分，%(v/v) Moisture, % (v/v)	/
	机械杂质 Mechanical impurities	/
用途 Purpose	切割后生产蜡烛、生产高粘氯化石蜡 It is used for the production of candle after cutting, and high viscosity chlorinated paraffin	

产品名称 Product Name	煤基车用汽油组分油 Coal-based automotive gasoline component oil	石脑油 Naphtha	液化石油气 Liquefied petroleum gas	丁二烯 Butadiene
指标 Indicator	现执行GB17930-2016标准 芳烃含量:(体积分数)≥13% 烯烃含量:(体积分数)见报告 硫含量:(质量分数)<0.001% 沸点(°C):40~200 相对密度:(水=1)0.75-0.79 饱和蒸气压(kPa):1.02~2.18(37.8C) 闪点(C):-50 辛烷值:90-95RON(ASTMD-2699) Currently subject to the GB17930-2016 standard Aromatic hydrocarbon content: (volume fraction) ≥13% Olefin content: (volume fraction) see the Report Sulfur content: (mass fraction) < 0.001% Boiling point (°C): 40-200 Relative density: (water=1) 0.75-0.79 Saturated vapor pressure (kPa): 1.02~2.18 (37.8C) Flash point (C): -50 Octane number: 90-95RON (ASTMD-2699)	颜色/赛博特号≥+20 密度20°C kg/m³630-750 终馏点≤200 烷烃含量质量分数%≥65 正构烷烃含量(质量分数)/%≥30 烯烃含量(质量分数)/%≤2.0 硫含量 (质量分数) /%≤0.05 外观无色透明液体 Color/Sybot number ≥+20 Density at 20°C kg/m³ 630-750 Final boiling point ≤200 Alkane content (mass fraction)/% ≥65 n-alkane content (mass fraction)/% ≥30 Olefin content (mass fraction)/% ≤2.0 Sulfur content (mass fraction) /% ≤0.05 Appearance: Colorless transparent liquid	现执行GB-11174-2011标准 C3+C4纯度≥95% 民用用途不得含有二甲醚 蒸气压(37.8C)KPa 不大于1380 C5及C5以上组分含量%(V/V) 不大于3 蒸发残留物mL/100mL 不大于0.05 铜片腐蚀级不大于1 硫含量mg/m³ 不大于343 Currently subject to the GB-11174-2011 standard C3+C4 purity ≥95% Dimethyl ether content is not allowed for civil use Vapor pressure (37.8C) KPa not greater than 1380 C5 and C5 and above component content % (V/V) not more than 3 Evaporation residue mL/100mL not greater than 0.05 Copper corrosion level not greater than 1 Sulfur content mg/m³ not greater than 343	现执行GB/T 13291-2008工业用丁二烯标准 丁二烯含量≥99.5% 二聚物≤1000mg/kg 总快≤20mg/kg 乙烯基乙快≤5mg/kg 水≤20mg/kg 炭基化合物≤10mg/kg 过氧化物≤5mg/kg 阻聚剂双方协定 Currently subject to GB/T 13291-2008 standard Butadiene for industrial use, butadiene content ≥99.5% Dimeric polymer ≤1000mg/kg Total acetylene ≤20mg/kg Vinyl ethylene ≤5mg/kg Water ≤20mg/kg Carbon-based compounds ≤10mg/kg Peroxide ≤5mg/kg Polymerization inhibitor Negotiated by both parties
特性 Characteristics	无色或淡黄色易挥发液体， 不溶于水， 易溶于苯、二硫化碳、醇、脂肪 不含硫和苯密度较高， 辛烷值高 Colorless or light yellow volatile liquid, Insoluble in water, Easily soluble in benzene, carbon disulfide, alcohol and fat. Contains no sulfur and benzene. High density and high octane number	低硫、直链烷烃含量高 Low sulfur, high content of linear alkanes	常温常压下为气态， 灌装在专用钢瓶内为液、 气两种形态易燃、易爆， 遇明火或火花极易发生爆炸 空气中液化石油气的浓度达到1.5-9.5%时， 遇明火或火花会爆炸 Gaseous state under normal temperature and pressure, Liquid and gas in special cylinders flammable and explosive, Easily explodes when exposed to open flame or spark When the concentration of liquefied petroleum gas in the air reaches 1.5-9.5%, explode when exposed to open flame or spark	容易氧化生成过氧化物 挤压和破坏设备、管道 Easily oxidized to form peroxide Squeeze and damage equipment and pipes
用途 Purpose	国五、国六汽油调和 Blending National V and National VI gasoline	生产乙烯的原料 Raw material for the production of ethylene	油品调和原料烷基化油、MTBE和丙烯 Oil blending raw material alkylated oil, MTBE and propylene	合成橡胶、合成树脂 Synthetic rubber, synthetic resin

产品名称 Product Name	粗苯 Crude benzene	硫磺 Sulfur	硫酸铵 Ammonium sulfide	液氨 Liquid ammonia
指标 Indicator	执行YB/T 5022-2016标准， 密度(20°C)0.87g/kg； 外观水白色； 不溶于水； 硫含量小于0.5ppm； 氯含量小于1.0ppm； 三苯含量≥93； Subject to the YB/T 5022-2016 standard, Density (20°C) 0.87g/kg; Appearance: Water-white; Does not contain water; Sulfur content <0.5ppm; Chlorine content <1.0ppm; Triphenyl content ≥93;	执行GB/T 2449.1-2021标准， 优等品硫(S) ≥99.95%； 水分≤2.0%； 灰分≤0.03%； 酸度<0.003%； 有机物<0.03%； 砷(AS)≤0.0001%； 铁(FE)≤0.003% Subject to the GB/T 2449.1-2021 standard, sulfur (S) of superior products ≥99.95%; Moisture ≤2.0%; Ash content ≤0.03%; Acidity <0.003%; Organic matter < 0.03%; Arsenic (AS) ≤0.0001%; Iron (FE) ≤0.003%	执行Q/SHNM1001-2019标准： 总氮(N)含量≥20.5% 水分(H₂O)≤1%； 游离酸(以H₂SO₄计)含量≤0.3%； Subject to the Q/SHNM1001-2019 standard: Total nitrogen (N) content ≥20.5% Moisture (H2O) ≤1%; Free acid (as H2SO4) content ≤0.3%;	外观与性状： 无色，有刺激性恶臭的气体 pH 值: 11.7 熔点(°C):-77.7 沸点(°C):-33 闪点(°C):<50 爆炸上限%(体积分数):25 爆炸下限%(体积分数):16 饱和蒸气压(kPa):506.62kpa(4.7°C) 相对密度(水=1):0.6(25°C) 相对蒸气密度(空气=1):0.6 辛醇/水分配系数(log P):无资料 溶解性:易溶于水、乙醇、乙醚 Appearance and physical state: Colorless, pungent odorous gas pH value: 11.7 Melting point (°C): -77.7 Boiling point (°C): -33 Flash point (°C): < 50 Explosion upper limit [% (volume fraction)]: 25 Lower explosion limit [% (volume fraction)]: 16 Saturated vapor pressure (kPa): 506.62kpa (4.7°C) Relative density (water=1): 0.6 (25°C) Relative vapor density (air=1): 0.6 Octanol-water partition coefficient (log P): No data Solubility: Easily soluble in water, ethanol, ether
特性 Characteristics	无色透明有芳香气味的液体易挥发 粗苯难溶于水 是一种良好的有机溶剂 Colorless, transparent and aromatic liquid that, easily volatile Crude benzene is poorly soluble in water It is a good organic solvent	淡黄色片状或颗粒， 有特殊臭味硫磺不溶于水， 微溶于乙醇醚易溶于二硫化碳硫磺 在空气中燃烧时发生蓝色火焰， 生成二硫化碳 Light yellow flakes or granules, Sulfur has special odor and is insoluble in water, Slightly soluble in ethanol and ether, easily soluble in carbon disulfide. When sulfur burns in the air, it produces a blue flame, Generate carbon disulfide	白色结晶或灰色粉末， 易溶于水， 不溶于乙醇和丙酮不燃， 受热易分解产生有毒烟气燃烧时 产生氮氧化物、硫化物 White crystal or gray powder, Soluble in water, Insoluble in ethanol and acetone, non-flammable, Easily decomposes when heated to produce toxic fumes, and produces nitrogen oxides and sulfides when burned	而且具有腐蚀性，且容易挥发 液氨在工业上应用广泛， Liquid ammonia is widely used in industry, Corrosive and easily volatile
用途 Purpose	一般作为纯苯抽提的原料部分 用于特殊油漆稀释剂 Generally, it is used as raw material for pure benzene extraction, for special paint thinners	染料、农药、火柴、火药、橡胶人造丝等 Dyes, pesticides, matches, gunpowder, rubber rayon, etc.	复合肥、纺织皮革、医药等 Compound fertilizer, textile leather, medicine, etc.	主要用于生产肥料、 生物发酵、 烟气脱硫和其他化学原料等 Mainly used to produce fertilizers, biological fermentation, Flue gas desulfurization and other chemical raw materials, etc.