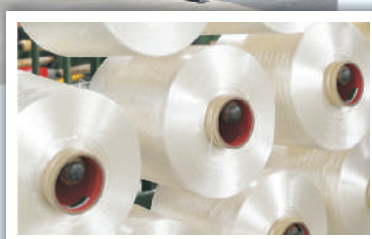


主导产品介绍 Introduction of leading products



尼龙66工业丝、帘子布产能16万吨，其中尼龙66工业丝涵盖常规丝、高强度丝、中细旦丝、色丝等系列产品，具有强度高、耐高温、尺寸稳定等特点，广泛用于帘子布、帆布、轮胎、输送带、高速缝纫线、降落伞、绳网等领域。

The production capacity of nylon 66 industrial yarn and cord fabric is 160000 tons. Among them, nylon 66 industrial yarn covers conventional yarn, high strength yarn, medium fine denier yarn, colored yarn and other products. It has the characteristics of high strength, high temperature resistance and stable size. It is widely used in cord fabric, canvas, tire, conveyor belt, high-speed sewing thread, parachute, rope net and other fields.

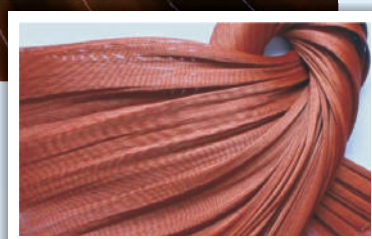


■ 尼龙66工业丝
Nylon 66 industrial yarn



尼龙66帘子布是广泛用于橡胶工业的优质轮胎骨架材料，性能优异，具有强度高、耐高温、耐疲劳、耐冲击的特征，适用于半钢子午胎、斜胶载重胎、工程胎、航空胎等。

Nylon 66 dipped tire cord fabric is broadly used in tire frame material of rubber industries with the advantages of high tension, heat resistance, fatigue resistance, impact resistance etc, which is especially suitable for bias-truck tire, engineering tire, aircraft tire etc.



■ 尼龙66浸胶帘子布
Nylon 66 dipped tire cord fabric



尼龙66切片拥有多个生产基地，总产能20万吨，主导产品有通用级、注塑级、纺丝级及特种改性切片，是电子电器、军工、铁路、汽车、纺织等领域的应用材料，产品具有耐磨、抗震、耐腐蚀等特性，是以塑代木、以塑代钢、以塑代瓷的典型替代材料。

Nylon 66 chips have a number of production bases with a total production capacity of 200000 tons. The leading products are general-purpose, injection molding, spinning and special modified chips. It is an applied material in the fields of electronic and electrical appliances, military industry, railway, automobile, textile and so on. The products have the characteristics of wear resistance, shock resistance and corrosion resistance. It is a typical substitute for wood, steel and porcelain with plastic.



■ 尼龙66切片
Nylon 66 Resin



己二酸产能50万吨，己二酸的主要用途是作为三大类产品的原料，即合成尼龙66盐、聚氨酯和增塑剂，还可用于生产高级润滑油和食品添加剂。目前，可向市场提供民用丝专用料，TPU专用料，浆料及鞋底原液等生产用料，其中牌号为SAA-Y的己二酸产品已达到替代进口水平。

Adipic acid production capacity of 500000 tons, adipic acid is mainly used as raw materials of three categories of products, namely, synthesis of nylon 66 salt, polyurethane and plasticizer, as well as production of high-grade lubricating oil and food additives. At present, it can provide the market with special materials for civil silk, TPU, size and sole stock. Among them, the adipic acid of saa-y has reached the level of replacing import.

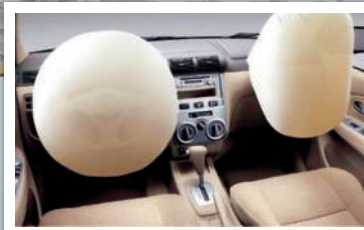


■ 精己二酸
Refined adipic acid



安全气囊用工业丝是神马股份和德国PHP公司合作生产的一种高性能尼龙66纤维，产能达1.3万吨，产品具有纤度低、强力高、耐冲击、耐热性好、热容量高、柔软、使用寿命长及可重复使用等特点，是制造汽车安全气囊的理想材料，是一种前景广阔的新材料。

The industrial silk for airbag is a kind of high performance nylon 66 fiber produced by Shenma Co., Ltd. and German PHP company, with a production capacity of 13000 tons. The product is characterized by low fineness, high strength, impact resistance, good heat resistance, high thermal capacity, softness, long service life and reusable use. It is an ideal material for automobile airbag and a new material with broad prospects.



■ 安全气囊丝
Safe gasbag fibre



己内酰胺产能40万吨，产品绝大部分用于生产聚己内酰胺，约90%用于生产合成纤维，即卡普隆，10%用做塑料，用于制造齿轮、轴承、管材、医疗器械及电气、绝缘材料等。也用于涂料、塑料剂及少量地用于合成赖氨酸等。还用于制取己内酰胺树脂、纤维和人造革等，也用作医药原料。

The production capacity of caprolactam is 400000 tons. Most of the products are used to produce polycaprolactam. About 90% of the products are used for the production of synthetic fibers, that is, caprolactam, and 10% of them are used as plastics to manufacture gears, bearings, pipes, medical devices, electrical and insulating materials. It is also used in coating, plastic agent and synthesis of lysine in a small amount. It is also used in the preparation of caprolactam resin, fiber and artificial leather, as well as pharmaceutical raw materials.



■ 己内酰胺
Caprolactam



性能具有良好的绒头效果与回弹性、耐磨、手感柔软、易染色、不易虫蛀、易清洗等特点，其用途可用于生产地毯、方块毯、挂毯、床垫、汽车毯、汽车底垫等。由于尼龙66BCF地毯丝有这些优良特点，被地毯商认为是生产高档簇绒地毯的最佳材料。

Performance has a good effect of pile and resilience, wear-resistant, soft, easy to dyeing, not easy to eat by moth, easy to clean, etc; its utility can be used in the production of carpet, square carpet, tapestry, mattresses, car mat, car floor mats, etc.. Due to the nylon 66 BCF carpet yarn has these excellent characteristics, is considered by carpet dealers as the best material to produce high-grade tufting carpet.

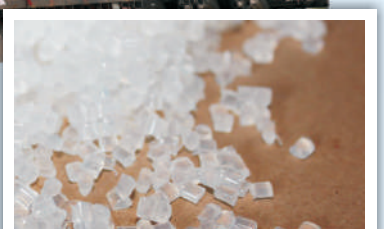


■ 尼龙66地毯丝
Nylon 66 Carpet Yarn



尼龙6切片产能22万吨，产品用于改性材料基体，经加玻纤、阻燃剂、增韧剂等助剂改性后生产出的改性产品可注塑“汽车、电动工具、电子电器、机械、家具、玩具”等行业的制件；也可应用于短纤、渔网丝等。

The production capacity of nylon 6 chips is 220000 tons. The products are used to modify the matrix of materials. The modified products are modified by adding glass fiber, flame retardant, toughening agent and other additives. The modified products can be used for injection molding parts of "automobiles, electric tools, electronic appliances, machinery, furniture, toys" and other industries; they can also be used in staple fiber, fishing net wire, etc.

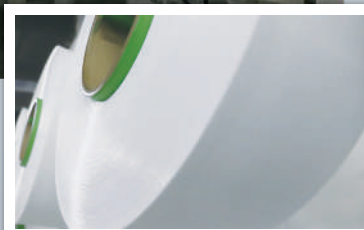


■ 尼龙6切片
Nylon 6 Slice



尼龙6民用丝规划产能10万吨，产品主要有高强单孔锦纶纤维，多孔细旦锦纶纤维，超细旦、高吸湿深染、抗静电、抗紫外、抗菌等复合功能锦纶纤维等系列产品。主要应用于高端服饰以及特种功能性服饰。

The planned production capacity of nylon 6 Civil silk is 100000 tons. The products mainly include high-strength single hole nylon fiber, porous fine denier nylon fiber, ultra-fine denier, high moisture absorption and deep dyeing, antistatic, anti-ultraviolet, antibacterial and other composite functional nylon fibers. It is mainly used in high-end clothing and special functional clothing.

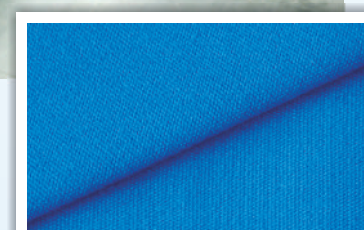


■ 尼龙6民用丝
Nylon 6 Civil silk



拥有1万吨高性能浸胶帆布生产能力，主要产品有NN帆布、NN耐高温帆布、EP帆布、EP耐高温帆布、EE帆布、芳纶帆布，化纤帆布是制作输送带的优质骨架材料，广泛应用于钢铁、矿山、港口等行业。具有强度高、耐热性好、尺寸稳定性好等许多优良性能，成本优势显著。

With the production capacity of 10000 tons of high-performance dipped canvas, the main products are NN canvas, NN high temperature resistant canvas, EP canvas, EP high temperature resistant canvas, EE canvas, aramid canvas. Chemical fiber canvas is a high-quality skeleton material for manufacturing conveyor belt, which is widely used in steel, mine, port and other industries. It has many excellent properties such as high strength, good heat resistance, good dimensional stability and so on.



■ 帆布
canvas



BOPA薄膜产能2.5万吨，产品具有杰出的抗拉伸强度和抗穿刺强度，并有优异的耐寒性。产品广泛应用于医疗、食品包装等领域。

BOPA film production capacity of 25000 tons, the product has outstanding tensile strength and puncture resistance, and excellent cold resistance. Products are widely used in medical, food packaging and other fields.



■ BOPA薄膜
BOPA film



主导产品有苯部分加氢催化剂、脱硫催化剂、钨基脱氧催化剂、钛硅分子筛(TS-1)催化剂等系列。是该领域中国最早开发成功并大规模应用、性能最优的催化剂，综合性能超过了日本公司的同类产品，打破了国外技术垄断，推动了我国尼龙行业的快速发展。

The main products are benzene partial hydrogenation catalyst, desulfurization catalyst, tungsten based deoxygenation catalyst, titanium silicalite (TS-1) catalyst series. It is the first catalyst successfully developed and applied on a large scale in China, with the best performance. Its comprehensive performance is better than that of the similar products of Japanese companies, breaking the monopoly of foreign technology and promoting the rapid development of China's Nylon industry.



■ 催化剂
Benzene Semi-hydrogenation



拥有国内首创的利用己二酸尾气生产高纯笑气技术，电子级笑气是现代光电子、微电子、大型集成电路、光纤制造领域重要的基础原料，被称为IC产业的“粮食”或“源”，同时被广泛应用于医疗、液晶面板等领域。

It has the first domestic technology to produce high-purity nitrous oxide using adipic acid tail gas. Electronic grade nitrous oxide is an important basic raw material in modern optoelectronics, microelectronics, large integrated circuits and optical fiber manufacturing fields. It is known as the "food" or "source" of IC industry, and is widely used in medical treatment, liquid crystal panel and other fields.

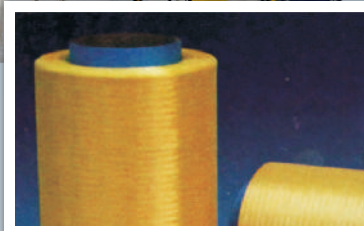


■ 笑气
Nitrous oxide



对位芳纶规划产能1000吨，该产品是一种应用前景十分广阔的新型高性能纤维材料。由于对位芳纶具有高于钢丝数倍的比强度和比模量，并可在350℃高温下长期使用，在航天、防弹、大型飞机（民用、军用）、光缆、橡胶骨架材料、耐磨增强复合材料、绳索、高温尾气处理等领域得到了广泛的应用。

The production capacity of para aramid fiber is planned to be 1000 tons. This product is a new type of high performance fiber material with wide application prospect. Para aramid fiber has the specific strength and specific modulus several times higher than that of steel wire, and can be used for a long time at 350 °C. It has been widely used in aerospace, bulletproof, large aircraft (Civil and military), optical cable, rubber skeleton material, wear-resistant reinforced composite material, rope, high-temperature exhaust gas treatment and other fields.



■ 对位芳纶
Para-aramid

PC项目一期10万吨，规划产能40万吨，全套引进美国KBR公司光气界面缩聚法生产工艺，技术先进、工艺成熟，PC产品将涵盖MI 2-40系列产品，能满足不同客户的个性化需求。

The first phase of PC project is 100000 tons and the planned production capacity is 400000 tons. The whole set of phosgene interface polycondensation process of KBr company in the United States is introduced. The technology is advanced and the process is mature. PC products will cover mi2-40 series products, which can meet the personalized needs of different customers.



■ PC

选用国内技术先进成熟的水煤浆气化技术，设计年总产能为40万吨合成氨、5万Nm³/h氢气，实现尼龙化工产业关键原料本地化。

The domestic advanced and mature coal water slurry gasification technology is selected, and the total designed annual production capacity is 400000 tons of synthetic ammonia and 50000 Nm³ / h hydrogen to realize localization of key raw materials for nylon chemical industry.



■ 氢氨
Hydrogen ammonia

己二腈一期产能5万吨，规划产能20万吨，采用“丁二烯直接氢氰化合成己二腈技术”是目前最先进的己二腈生产技术，产品可替代部分进口原料，对国内尼龙66行业的健康发展具有重要意义。

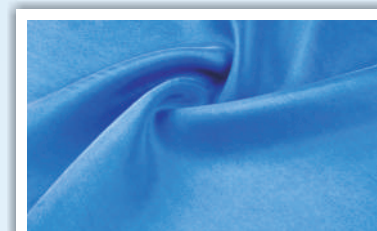
The production capacity of the first phase of adiponitrile is 50000 tons, and the planned capacity is 200000 tons. The most advanced production technology of adiponitrile is to adopt the technology of direct hydrocyanogenesis of butadiene to adiponitrile. The products can replace some imported raw materials, which is of great significance to the healthy development of domestic nylon 66 industry.



■ 己二腈
Adiponitrile

拥有2万吨化纤印染生产能力，为尼龙产品就地转化创造良好市场优势，加速推进尼龙产业发展。

It has a production capacity of 20000 tons of chemical fiber printing and dyeing, creating a good market advantage for the local conversion of nylon products, and accelerating the development of nylon industry.



■ 印染
Printing and dyeing