宁新新材 839719

江西宁和达新材料有限公司

Jiangxi Ningheda New Material Co., Ltd.



公司简介

COMPANY PROFILE



江西宁和达新材料有限公司成立于2017年，公司位于江西省宜春市奉新高新技术产业园，系江西宁新新材料股份有限公司（以下简称宁新新材）控股子公司。

江西宁新新材料股份有限公司，是一家专业从事特种石墨研发、生产和销售为一体的企业，总投资5.2亿，目前占地面积约228亩，年产特种石墨10000吨，处于国内行业龙头地位。2016年11月8日，宁新新材成功挂牌新三板。股票简称：宁新新材 股票代码：839719。

江西宁和达新材料有限公司主要从事石墨制品机加工，石墨产品配套服务。专门为锂电行业、稀土行业、机械行业、航天航空、电子半导体及太阳能光伏产业等提供石墨材料、石墨电极和相关的石墨制品，并为这些行业及产品提供相应的应用技术服务及技术更新方案。

江西宁和达新材料有限公司生产技术精湛，服务意识好，市场占有率高，依托母公司宁新新材原料优势，资金优势，管理优势快速发展，致力于特种石墨产业链延伸，为未来打造石墨全产业战略贡献力量。

Established in 2017, located inHigh-tech Industrial Park, Fengxin County, Yichun City, Jiangxi Province, China, Jiangxi Province, China, Jiangxi Ningheda New Material Co., Ltd. is the subsidiary company of Jiangxi Ningxin New Material Co., Ltd.

Jiangxi Ningxin New Material Co., Ltd. is an enterprise which specializes in R&D, production and sale of special graphite. The total investment is RMB 520 million. It covers an area of more than 152000m^2 and produces 10000 tons of special graphite annually, which makes Ningxin to be the leading enterprise in the domestic industry.

On November 8th, 2016, Ningxin was listed of Chinese new third board. The stock abbreviation is Ningxin New Material, and stock code is 839719.

Jiangxi Ningheda New Material Co., Ltd. is mainly engaged in graphite product processing, graphite product matching service, providing graphite materials, graphite electrode and graphite products for the lithium industry, rare earth industry, machinery industry, aerospace, semiconductor and solar photovoltaic industry, together with the corresponding products technical service and technical application of update program.

With excellent production technology, good customer service, high market share, and relying on the advantage of new material, capital and management of parent company (Jiangxi Ningxin New Material Co., Ltd.), Jiangxi Ningheda New Material Co., Ltd. develops quickly. We devote to the extension of the special graphite industry chain, and make contributions for building the future whole graphite industry strategy.

石墨材料 / 细颗粒石墨 Fine Grain Graphite

采用冷模压生产的细颗粒石墨广泛用于机械、电子、半导体、多晶硅、单晶硅、冶金、化工、纺织、电炉、空间技术以及生物化工等行业，该石墨具备以下特性：

❶ 良好的导电性和较高的导热性
❷ 低热膨胀性使用具有较高的抗热冲击力。
❸ 高温下强度增大，可耐高温3000度以上
❹ 具有化学稳定性，不易反应
❺ 自润滑性
❻ 易于加工





The fine grain graphite produced by cold molding are widely used in machinery, electronics, semiconductors, polycrystalline silicon, monocrystalline silicon, metallurgy, chemical, textile, electric furnaces, space technology and biological and chemical industries. The graphite has the following characteristics:

❶ Good electric conductivity and high thermal conductivity
❷ Low thermal expansion and high resistance to thermal shock.
❸ The strength increases at high temperature, and it can withstand over 3000 degrees.
❹ Stable chemical property and hard to react
❺ Self lubrication
❻ Easy to process

技术指标 Technical Characteristic

牌 号 Grade	NX603	NX604	NX605	NX613	NX614
颗粒度 Grain Size (≤μm)	25	25	25	15	15
体积密度 Bulk Density (≥g/cm3)	1.78	1.85	1.90	1.78	1.85
抗压强度 Compressive (≥MPa)	70	80	90	80	90
抗折强度 Flexural Strength (≥MPa)	35	38	42	39	43
气孔率 Porosity (≤%)	17	14	11	12	11
电阻率 Specific Resistance (≤μΩm)	12	11	10	13	11
灰分 Ash Content (≤ppm)	600	500	300	500	300
肖式硬度 Shore Hardness	50	55	60	55	60

1、灰分含量可根据要求提纯至30ppm；
2、以上指标数据为标准值，不是保证值。

1、The ash content can be purified to 30ppm according to the requirement.
2、The above index data is the standard value, not the guaranteed value.

Medium Grain Graphite 中粗石墨 / 石墨材料

中粗石墨包括石墨方块和石墨圆柱，其主要用途如下：
There are graphite block and graphite cylinder of medium grain graphite, t he main applications are as below:



❶ 用于加工石墨坩埚、石墨舟皿、石墨模具、石墨转子、石墨发热体、石墨流槽、石墨冷铁等；
❷ 用于高温炉体做结构材料；
❸ 用于强酸、强碱、强腐蚀性环境中，如稀土冶炼、化工行业等，根据需要加工成各种部件；
❹ 用于加工石墨电极。

❶ For processing graphite crucible, graphite boat, graphite mold, graphite rotor, graphite heating element, graphite flow trough, graphite cold iron, etc.;
❷ used for high temperature furnace body to make structural materials;
❸ used in strong acid, alkali, strong corrosive environment, such as rare earth smelting, chemical industry, etc., processed into various parts according to needs;
❹ For processing graphite electrodes.

技术指标 Technical Characteristic

牌 号 Grade / 指 标 Index	NX21	NX22	NX81	NX82
颗粒度 Grain Size (mm)	2.0	2.0	0.8	0.8
体积密度 Bulk Density (≥g/cm3)	1.6	1.7	1.62	1.72
抗压强度 Compressive Strength (≥MPa)	19	30	23	35
抗折强度 Flexural Strength (≥MPa)	7.8	13	9	15
电阻率 Specific Resistance (≤μΩm)	9	8.5	9	8.5
灰分 Ash Content (%)	0.3	0.3	0.3	0.3
热导率 Thermal expansion coefficient (×10-6℃)	2.0	2.2	2.0	2.2

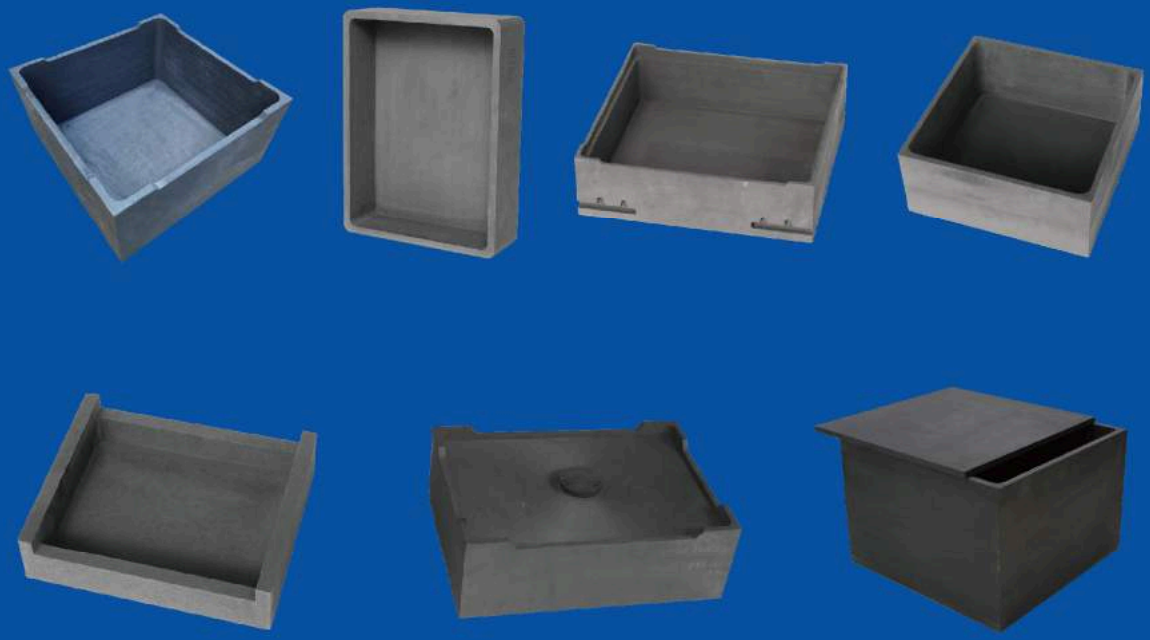
石墨匣钵 Graphite sagger

石墨匣钵是一种由人造石墨加工而成的容器，因石墨材料的耐酸耐碱耐高温的特性， 石墨匣钵广泛用于材料需要加热或烧制的各种行业，包括锂电池、钒氮合金、陶瓷、冶金、玻璃、化工、半导体等行业。

我司可根据客户的设计和使用行业的要求，定制相应的石墨匣钵，包括但不限于形状、尺寸、隔板等。

Graphite sagger is a container made of artificial graphite. Due to the acid and alkali resistance and high temperature resistance of graphite materials, graphite sagger is widely used in various industries where materials need to be heated or fired, including lithium batteries, vanadium nitrogen alloys , ceramics, metallurgy, glass, chemical industry, semiconductor and other industries.

We can customize the corresponding graphite sagger according to the customer's design and the requirements of the industry, including but not limited to shape, size, partition, etc.



FOURTH 04

有色金属用石墨制品
Graphite Products for Nonferrous Metals

具体产品有

- 贵金属用石墨坩埚、舟皿、搅拌棒
- 石墨转子、石墨通气管
- 连续铸造用石墨模具



Main products

1. Graphite Crucible, Graphite Boat, Graphite Stirring Rod
2. Graphite Liner
3. Graphite rotors and graphite snorkel
4. Graphite mold for continuous casting

Raw material characteristics: high purity, high density, good thermal resistance, ablation resistance, erosion resistance, oxidation resistance and thermal shock resistance.

石墨坩埚、舟皿、搅拌棒 Graphite crucible, graphite boat and graphite stirring rod

用于黄金，白银等各种首饰，珠宝的铸造和重铸。
Used for gold, silver and other jewelry casting and recasting.



石墨转子、石墨通气管 Graphite rotors and graphite snorkel

用于精炼铝除气。工作原理为旋转的转子将吹入铝熔体中的氮气（或氩气）破碎成大量的弥散气泡，并使其分散在金属液中。气泡在熔体中靠气体分压差和表面吸附原理，吸收熔体中的氢，吸附氧化夹渣，并随气泡上升而被带出熔体表面，使熔体得以净化。我公司采用优质石墨材料，经过精确加工以及后续抗氧化处理，确保转子使用寿命，达到提高产品质量，降低企业成本和工人劳动强度。





It is used for refining aluminum degassing. The working principle is that the rotating rotor will break the nitrogen (or argon) in the molten aluminum melt into a large number of dispersed bubbles, and disperse it into the molten metal. The bubble depends on the gas pressure difference and surface adsorption in the melt, absorbs hydrogen in the melt, adsorbs and oxidize the slag, and is taken out of the melt surface with the rise of the bubble, so that the melt can be purified. Our company adopts high quality graphite materials, through accurate processing and subsequent antioxidant treatment, to ensure the service life of the rotor, improve the quality of products, and reduce the cost of enterprises and labor intensity.

连续铸造用石墨模具 raphite molds for continuous casting

连续铸造用石墨模具主要用于金、银、铜、铝等有色金属的连续铸造，

产品特点：耐高温、抗氧化、抗化学侵蚀、自润滑和导热性好，我司选用密度大、强度高、结构均匀、气孔率小、抗热震性好的石墨材料，经精密加工而成，具有提高金属成品质量，延长使用时间等特点。



Graphite mould for continuous casting is mainly used for continuous casting of nonferrous metals such as gold, silver, copper and aluminum.

Product features: high temperature resistance, anti oxidation, anti chemical erosion, self lubrication and good thermal conductivity. We choose graphite materials with high density, high strength, uniform structure, small porosity and good thermal shock resistance. It is made by precision processing, which has the characteristics of improving the quality of metal products and prolonging the use time.

碳碳制品 Carbon-Carbon products

碳碳复合材料是各种半导体晶体生长炉，工业炉用结构件的材料。如坩埚，料架，工装，防护板。

Carbon-carbon composite materials are used as structural parts for various semiconductor crystal growth furnaces and industrial furnaces, which are usually processed into crucibles, material holders, equipment tooling, and protective plates.

碳毡制作工艺：

1. 碳短丝气流成网后针刺
2. 预氧丝毡碳化
3. 聚丙烯腈纤维毡预氧化和碳化。

Carbon felt production process involves needle punching after air-laid short carbon filaments, carbonization of pre-oxidized wire felt, and pre-oxidation and carbonization of polyacrylonitrile fiber felt.

石墨硬毡由"碳纤维长纤维"成型，经2200摄氏度特殊工艺制成，保温性能好、密度低、灰分低、寿命长，半导体晶体生长炉、真空炉等石墨热场的理想保温材料。

Graphite hard felt is formed by "long carbon fiber" and made by a special process at 2200 ℃. It has advantages of good thermal insulation performance, low density, low ash content, and long life. It is an ideal thermal insulation material for graphite heat fields such as semiconductor crystal growth furnaces and vacuum furnaces.

石墨软毡由，经2200摄氏度特殊工艺制成，是半导体晶体炉、真空炉、及高温烧结炉等石墨热场的理想保温材料。

Graphite soft felt is made by a special process at 2200 ℃. It is an ideal insulation material for graphite heat fields such as semiconductor crystal furnaces, vacuum furnaces, and high-temperature sintering furnaces.

技术优势 Technical advantages

① 碳碳复合材料:从碳纤维编织到成型，加工全产业链，产品竞争性强。我们采用特殊的成型方式， 使得碳碳复合材料的生产周期比同行缩短一半，成本低，周期短。

② 低密度碳碳保温毡采用独创的混纺技术，和碳碳并线生产，既提高了碳碳的机械性能，能使低密度材料的保温性能得以提升，同时，也为产业链向上延伸创造了条件。

① Carbon-carbon composite materials: We process the whole industrial chain from carbon fiber weaving to molding, and our products are highly competitive. We use a special molding method to shorten the production cycle of carbon-carbon composite materials by half compared with our peers, with low cost and short cycle time.

② The low-density carbon-carbon thermal insulation felt adopts the original blending technology and is produced in parallel with carbon-carbon, which not only improves the mechanical properties of carbon-carbon, but also improves the thermal insulation performance of low-density materials.

序号 NO.	产品 Commodity		规格 Thickness (mm)	密度 Density (g/cm3)	最大(常规)尺寸 Max(Standard) Size (mm)
1	碳碳材料 C/C	2D碳布板 2D Carbon Cloth	≤5	1.4±0.1	2000×1500×5
		2DL/U型材 2DL/U Profile	1-3	1.4±0.1	Length within 2000
		2.5D碳碳板 2.5D C/C Plate	3-10	1.5±0.1	2000×1500×2-20mm
		碳碳模具 C/C Mould	按图要求 Customized	≥1.6	Dia within 750 Heighth within 600
		碳碳异形件 C/C shaped parts		1.4±01	Customized
		螺杆板 Screw Plate		1.5±01	500×500×10-50
		螺杆+螺帽 Screw+Nut		1.5±01	Customized
2	硬毡 Hard Felt	PAN基硬毡板 PAN hard graphite felt board	≤30	0.28±0.02	2400×1500×20-200mm
			>30	0.25±0.02	2400×1500×20-200mm
		PAN硬毡筒 PAN hard graphtie felt cylinder	≤30	0.28±0.02	Dia within 1600 Heigth within 2200
			>30	0.25±0.02	Dia within 1600 Heigth within 2200
		黏胶进口硬毡板 Rayon hard graphite felt board	≥20	0.2±0.02	2400×1500×20-200mm
		整体硬毡板 Integral hard graphite felt board	≥20	0.16±0.02	1600×1600×20-200
3	软毡 Soft Felt	国产碳毡 PAN Carbon felt	5, 10	0.15±0.01	1200-1400
		国产石墨毡 PAN Graphite felt	5, 10	0.14±0.01	1200-1400
		黏胶石墨毡 Rayon graphite felt	10	0.12±0.01	1200-1400



真空镀铝石墨坩埚

Graphite Crucible for Vacuum Evaporation Coating of Aluminum

石墨坩埚是真空镀铝薄膜生产中必不可少的消耗性部件,真空镀铝对石墨坩埚的质量要求十分苛刻,石墨坩埚的质量好坏将直接影响到镀铝薄膜的产品质量和生产成本。

Graphite crucible is an indispensable consumable part in the production of vacuum evaporation aluminium coating, which requires high quality graphite crucible. Because the graphite crucible quality affect the product quality and production cost of aluminum coated film directly.



我司的坩埚具有如下优势: Our Advantages:

1.石墨原料体积密度高,气孔率低,最大程度抵御了熔融铝液和气态铝微粒的侵蚀;

2.石墨原料纯度高,灰分低,在生产中不会产生有害挥发性物质，有效避免在镀铝薄膜.上形成麻点、沙眼和针孔,充分保证了镀铝薄膜的质量;

3.石墨坩埚尺寸精确、表面光洁,抗氧化性能强,消耗低，使用寿命长。

1. Graphite raw material has high bulk density and low porosity, which resists the erosion of molten aluminum liquid and gaseous aluminum particles to the greatest extent.
2. Graphite raw material with high purity, low ash content prevents volatile substances in production, avoiding spots, holes on aluminum coated film, which can guarantee the quality of the aluminum coated film.
3. Graphite crucible has precise dimensions, smooth surface, strong oxidation resistance, low consumption and long service life.

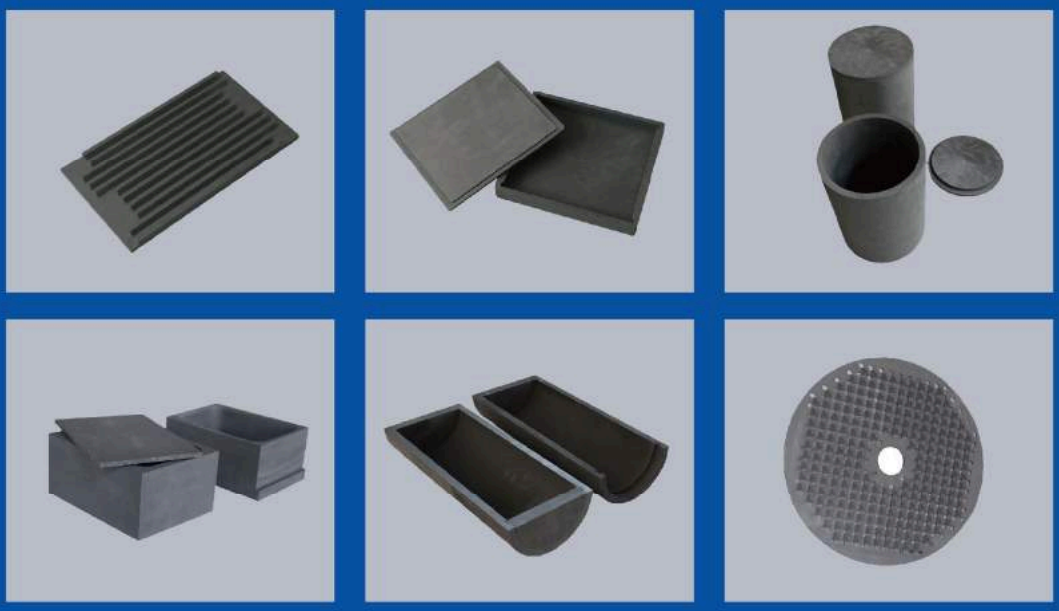
牌号 Grade	颗粒度 Grain Size	体积密度 Bulk Density	抗折强度 Flexural Strength	抗压强度 Compressive Strength	电阻率 Specific Resistance	气孔率 Porosity	灰分 Ash Content	肖式硬度 Shore Hardness
	(μm)	(g/cm3)	(MPa)	(MPa)	(μΩm)	(%)	(PPM)	(HSD)
NX605	25	1.9	70	35	12	11	500	60

硬质合金、粉末冶金用石墨组件

Graphite components for powder metallurgy and cemented carbide

本产品系采用优质人造石墨经机械加工而成，主要应用于各种真空电阻炉、碳管炉，感应炉、烧结炉、钎焊炉、离子氮化炉、钽铌冶炼炉、真空淬火炉等需用的石墨盘，石墨舟皿，石墨管状发热体，石墨加热管，导电杆，石墨炉床板，石墨螺栓，螺母，石墨支架，石墨模具。

This product is made of high quality artificial graphite by mechanical processing. It is mainly used in all kinds of vacuum resistance furnace, carbon tube furnace, induction furnace, sintering furnace, brazing furnace, ion nitriding furnace, tantalum niobium smelting furnace, vacuum quenching furnace and so on, of which need graphite plate, graphite boat, graphite heater, graphite heating tube, conductive rod, graphite hearth plate, graphite bolt, nut, graphite bracket, graphite mould.



光伏行业用石墨组件
Graphite components for photovoltaic industry

单晶硅炉用石墨热场及配件 Graphite heat field and fittings for monocrystalline silicon furnace

多晶硅铸锭炉用石墨热场 Graphite heat field for polycrystalline silicon furnace

石墨热场及组件在光伏产业中起着至关重要的作用。 由于对太阳能的需求不断增加，光伏产业一直在快速增长。 光伏制造过程中使用的石墨热场和组件对于确保高质量的太阳能电池板至关重要。

我公司提供专为光伏行业设计的高品质石墨热场和组件。 我们的产品已经过测试，可确保耐用性、可靠性和热量分布的均匀性。 这些功能对于确保生产的太阳能电池板具有高质量、符合行业标准并提供卓越性能至关重要。

在光伏行业中使用我们的石墨热场和组件具有多项优势。 我们的产品具有高传热率，从而加快制造过程，减少生产时间并增加产量。 此外，我们的石墨热场具有高导热性，可确保面板生产均匀，减少缺陷的可能性并提高太阳能电池板的整体质量和效率。

我们公司还提供定制服务，以满足客户的独特需求。 我们经验丰富的工程师可以与您合作开发满足您特定要求的定制解决方案。



单晶硅石墨热场



单晶硅石墨热场

Graphite heaters and components play a vital role in the photovoltaic industry. The photovoltaic industry has been growing rapidly due to the increasing demand for solar energy. Graphite heaters and components used in the photovoltaic manufacturing process are critical to ensuring high-quality solar panels.

Our company supplies high quality graphite heaters and components specially designed for the photovoltaic industry. Our products have been tested to ensure durability, reliability and even heat distribution. These features are critical to ensure that the solar panels produced are of high quality, meet industry standards and deliver superior performance.

There are several advantages to using our graphite heaters and modules in the photovoltaic industry. Our products have a high heat transfer rate, which speeds up the manufacturing process, reduces production time and increases throughput. Additionally, the high thermal conductivity of our graphite heaters ensures uniform panel production, reduces the possibility of defects and improves the overall quality and efficiency of solar panels.

Our company also provides customized services to meet the unique needs of customers. Our experienced engineers can work with you to develop a custom solution that meets your specific requirements.



多晶硅石墨热场



多晶硅石墨热场

电火花加工用石墨电极

Graphite Electrode for electric discharge machining

雕铣机 数控机床 电极模具





— 加工速度:高速铣粗加工较铜块3倍;高速铣精加工较铜块5倍

— 重量轻,密度不足铜的1/4,电极容易夹持

— 热稳定性好,不变形

— 可加工性好,能实现复杂的几何造型

— 可减少单个电极的数量,因为可捆绑做成组合电极

— 无加工毛刺

— Machining speed: high speed rough milling is 3 times of copper block, and high speed fine milling is 5 times of copper block.

— Good machinability, complex geometric molding is available.

— Light weight, low density (less than 1/4 of copper), easy to clamp.

— It can reduce the number of single electrodes, because it can be bundled into composite electrodes.

— Good thermal stability and no deformation

— No machined burr

我公司选用国内外优异的石墨材料，该石墨材料具有纯度高，颗粒细，导电导热性能良好，高密度，耐腐蚀、耐热冲击，热稳定性好，机械强度高，渗透性低，抗氧化性好等特点，并且凭借全套的数控加工设备，可精确控制石墨模具精度，满足客户需要。

Our company selects excellent graphite materials both at home and abroad. The graphite material has the characteristics of high purity, fine grain, good electric conductive and thermal conductivity, high density, corrosion resistance, good thermal resistance, good thermal stability, high mechanical strength, low permeability, good oxidation resistance and so on. And with a complete set of CNC machining equipment, the accuracy of graphite molds can be accurately controlled, which makes us meet customer needs all the time.

Other graphite products 其他石墨加工件






















主营业务

Special Graphite Applications 特种石墨用途

特种石墨
Special Graphite



电火花
EDM



锂电行业
Lithium battery



换热器
Graphite Heat Exchanger



航天航空
Aerospace



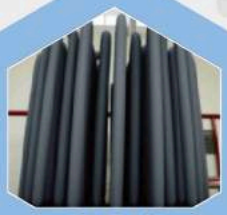
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