KingmaxCell®
KAIMAOXING

本公司通过 ISO 9001 质量管理体系 ISO 14001 环境管理体系 ISO 45001 职业健康与安全管理体系认证





Our company is certified by ISO 9001 Quality Management System,ISO14001 Environmental Management System, ISO 45001 Occupational Health and Safety Management System.

我们致力于优质纤维素醚生产与研发

源头工厂 纤维素醚行业领航者

凯茂星纤维素有限公司

KINGMAX CELLULOSE CO.,LTD

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Evolution driven by people

进 步 源 自 你 我



关于我们 - 凯茂星

About US - KINGMAX

凯茂星纤维素有限公司,位于“中国鸭梨之乡”，环境优美，四季水果飘香的晋州市，公司西距省会石家庄 50 公里，铁路连通京广，京九，石黄高速，307 国道横穿市区，地理位置优越，交通方便。”凭借着求实、创新、精益求精的工作作风，将凯茂星公司发展成为目前国内技术先进、质量先进、品种齐全的纤维素醚生产企业。公司逐步发展成为以研究、开发、销售、出口贸易为一体的综合性国家高新技术企业。

,随着市场的不断拓展和公司整体发展规划，自 2020 年起，公司在河北省晋州市经济开发区马于化工园区开始建设 35,000 吨/年建材级纤维素醚项目，总投资 3.5 亿元。新生产线的建设，总结了多年来纤维素醚的生产经验，重点解决产品在生产中的 一致性及在使用中的稳定性问题，在生产线设计中得以实现，并引进 12 台一体化卧式反应釜，建立 DCS 控制中心，整个生产系 统全部由控制中心实施监控，使产品生产过程中的加料、计量、温度、压力等实现全过程自动化控制，极大地提高了生产效率， 降低劳动强度，并保障了安全生产。整个生产过程均在密闭的环境中完成，消除了外部条件及人为干预对产品质量的影响，解 决了国内产品一致性差的技术难题。

经过近 20 年来的专业化发展历程，凯茂星纤维素已经成为中国工业级纤维素醚行业较大的生产商之一，产能达到 35,000 吨； 凯茂星纤维素拥有建筑级、 日化级、 涂料级非离子纤维素醚； 产品分为甲基纤维素（ MC）、羟丙基甲基纤维素
（HPMC）、羟乙基甲基纤维素（HEMC）、羟乙基纤维素（HEC）四大品类，几十个规格的丰富产品线，产品广泛用于食 品、医药、化妆品、化工、建材、涂料、农业等领域。为海内外客户提供更多的选择和更优质的服务。

公司建有独立的技术研发中心，拥有丰富的高科技人才，并与大专院校、科研单位建立了长期的技术合作关系，为公司的创新发展奠定了坚实的基础。公司深入践行绿色发展理念，建有 MVR 污水处理先进的环保治理系统，实现了废水达标排放，真 正起到了清洁、环保、节能之功效，为留下蓝天、碧水、绿地保驾护航。。

随着凯茂星纤维素的国际化战略的实施，公司生产的优质纤维素醚远销俄罗斯、印度、新加坡、南非、巴西、澳大利亚等国家和地区，产品质量为海外客户普遍认可。作为中国纤维素醚领导企业之一，有责任、有能力解决纤维素醚生产和应用中遇到的问题，凯茂星纤维素致力于成为国内外纤维素醚用户忠实、可靠、可信赖的合作伙伴。

把握现在，展望未来，公司始终坚持追求卓越，迎接挑战，为客户提供放心产品。按照经营管理现代化、生产技术高新化、主导产品名牌化、市场营销国际化的要求，秉承使命，厚积薄发，以高度的社会责任感、先进的技术水平，与有识之士共同携手，在新的征途上再放异彩！

Kingmax Cellulose Co., Ltd is located in Jinzhou City, “the hometown of pear in China”, with beautiful environment and the fragrance of fruits in four seasons. The company is 50 kilometers away from the provincial capital Shijiazhuang in the west, and the railway connects Beijing-Guangzhou, Beijing-Kowloon, Shihuang Expressway and 307 National Highway across the city. Strategic location, convenient transportation. With the realistic, innovative, excellence of the work style, Kingmax develops into the current domestic advanced technology, advanced quality, complete varieties of cellulose ether production enterprises. The company has gradually developed into a comprehensive national high-tech enterprise integrating research, development, sales and export trade.

With the continuous expansion of the market and the overall development plan of the company, since 2020, the company has started to build a project of 35,000tons/year building material grade cellulose ether in Mayu Chemical industry Part, Jinzhou Economic Development Zone, Hebei Province, with a total investment of 350 million yuan. The construction of the new production line, summed up many years of cellulose ether production experience, focus on solving the problem of consistency in production and stability in use in the production line design to achieve, and the introduction of 12 integrated horizontal reaction kettle, the establishment of DCS control center, the entire production system is monitored by the control center. The product in the process of feeding, measurement, temperature, pressure and other automatic control of the whole process, greatly improve the production efficiency, reduce labor intensity, and ensure the safety of production. The whole production process is completed in a closed environment, eliminating the influence of external conditions and human intervention on product quality, and solving the technical problem of poor consistency of domestic products.

After nearly 20 years of professional development, Kingmax Cellulose has become one of the main manufactures of industrial cellulose ether industry in China, with a capacity of 35,000 tons. Kingmax Cellulose has building grade, daily chemical grade, coating grade non-ionic cellulose ether. Products are divided into methyl cellulose (MC), hydroxypropyl methyl cellulose (HPMC), hydroxyethyl methyl cellulose (HEMC), hydroxyethyl cellulose (HEC) four categories, a rich product line of dozens of specification, products are widely used in food, medicine, cosmetics, chemical, building materials, coatings, agriculture and other fields. To provide more choices and better service for customers at home and abroad.

The company has an independent technology research and development center, has a wealth of high-tech talents and has established long-term technical cooperation with universities and scientific research institutions, which has laid a solid foundation for the company’s innovation and development. The company deeply practices the concept of green development, and has built the advanced environmental protection system of MVR sewage treatment, which realizes the standard discharge of waste water, truly plays the role of clean, environmental protection and energy saving, and escorts the blue sky, clear water and green space.

With the implementation of the internationalization strategy of Kingmax Cellulose, the high-quality cellulose ether produced by the company is exported to Russia, India, Singapore, South Africa, Brazil, Australia and other countries and regions, and the product quality is widely recognized by overseas customers. As one of the leading cellulose ether enterprises in China, Kingmax Cellulose has the responsibility and ability to solve the problems encountered in the production and application of cellulose ether. Kingmax Cellulose is committed to becoming a loyal and reliable partner for cellulose ether users at home and abroad.

Grasp the present, looking forward to the future, the company always adhere to the pursuit of excellence, to meet the challenges, to provide customers with assured products. In accordance with the requirements of modern management, advanced production technology, leading product brand, marketing internationalization, adhering to the mission, accumulate steadily, with a high sense of social responsibility, advanced technical level, and people of vision to work together, in the new journey to shine!

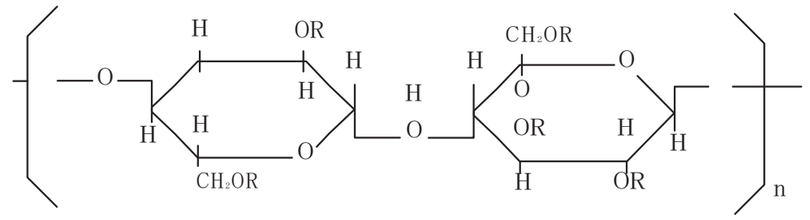


羟丙基甲基纤维素(HPMC)

Hydroxypropyl methyl cellulose (HPMC)

一、化学名称及结构式：羟丙基甲基纤维素（HPMC）

Chemical name and structural formula: hydroxypropyl methyl cellulose (HPMC)



式中 n 为聚合度，R 为-H，$-CH_3$ 或 $CH_2CHOHCH_3$。

Where n is the degree of polymerization, and R is -H, -CH3 or CH2CHOHCH3.

二、技术要求 Technical requirements

质量指标（符合美国药典 USP24 和欧洲药典 EP 标准）

Quality indicators (in line with the United States Pharmacopoeia USP24 and European Pharmacopoeia EP standards)

指标 型号 / 项目	60KM	65KM	75KM
甲氧基	28-30%	27-30%	19-24%
羟丙养基	7-12%	4-7.5%	4-12%
凝胶温度℃	58-64	62-68	70-90
水份	≤5%		
灰份	≤5%		
PH 值：1%溶液，25℃	4-8		
粘度(2%，20℃)mpa·s	见粘度规格		

注：60KM50 牌号中，60 为凝胶温度，50 为公称粘度，其它牌号组合依次类推(KM 为“凯茂星”公司汉语拼音字头)。

Note: In 60KM50 grade, 60 is gel temperature, 50 is nominal viscosity, other grade combinations are followed in sequence (KM is the Chinese pinyin prefix of “kingmax” company).





超越自我，开创未来
Surpass self

粘度规格 Viscosity specification

Viscosity by Brookfield	Vsicosity by NDJ-1
40-60	40-60
350-550	350-550
650-1000	650-1000
1200-1800	1200-1800
2000-3000	2000-3000
3200-4800	3200-4800
6400-9600	6400-9600
10000-15000	12000-18000
24000-32000	30000-50000
32000-40000	50000-90000
38000-45000	80000-120000
45000-67000	120000-180000
≥67000	≥180000

注：2%水溶液 20℃时的粘度。

Note: viscosity of 2% aqueous solution at 20°C.



三、理化性质 Physicochemical property

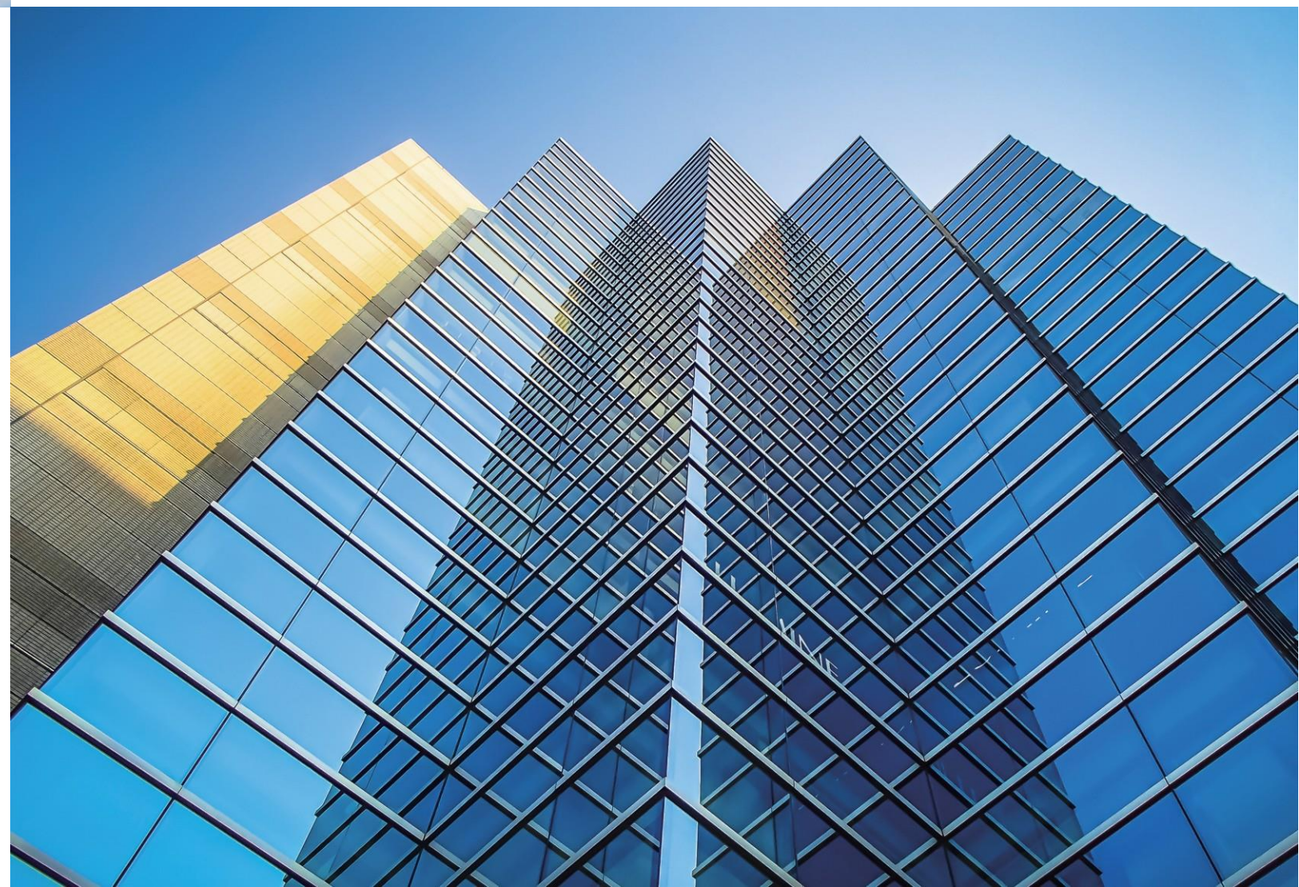
1. 外观：白色或类白色粉末。
2. 颗粒度：100 目通过率大于 98.5%；80 目通过率大于 100%。
3. 炭化温度：280—300℃。
4. 表观密度： 0.25—0.70g/cm^3。(通常在 0.5g/g/cm^3 左右)，比重 1.26—1.31。
5. 变色温度：190—200℃。
6. 表面张力：2%水溶液为 42—56dyn/cm。
7. 溶于水及部分有机溶剂，如适当比例的乙醇、水、二氯乙烷等。水溶液具有表面活性。透明度高，性能稳定，不同规格的产品凝胶温度不同，溶解度随粘度而变化，粘度愈低，溶解度愈大，不同规格 HPMC 其性能有一定差异，HPMC 在水中的溶解不受 PH 值影响。
8. HPMC 还具有增稠能力，排盐性、低灰份、PH 稳定性、保水性、优良的成膜性、以及广泛的耐酶性、分散性和粘结性等特点。

1. Appearance: White or kind of white powder.
2. Particle size: 100 mesh pass rate is greater than 98.5%, 80 mesh pass rate is greater than 100%.
3. Carbonization temperature: 280-300℃.
4. Apparent density: 0.25-0.70 g/cm^3.(Usually around 0.5g/g/cm^3), specific gravity 1.26-1.31.
5. Color change temperature: 190-200℃.
6. Surface tension: 42-56dyn/cm in 2% aqueous solution.
7. Soluble in water and some organic solvents, such as appropriate proportion of ethanol, water, dichloroethane, etc. An aqueous solution has surface activity. High transparency, stable performance, different specifications of product gel temperature is different, solubility changes with viscosity, the lower the viscosity, the greater the solubility, different specifications of HPMC its performance has a certain difference, HPMC in water dissolution is not affected by the PH value.
8. HPMC also has the thickening ability, salt drainage, low ash content, PH stability, water retention, excellent film formation, and a wide range of enzyme resistance, dispersion and cohesiveness.

四、主要用途 Main uses

本品为工业级 HPMC，主要用途为聚氯乙烯生产中作分散剂，系悬浮聚合制备 PVC 主要助剂。另 外，在其它石油化工、建材、除漆剂、农业化学品、油墨、纺织印染、陶瓷、造纸、化妆品等产品生 产中作增稠剂、稳定剂、乳化剂、赋形剂、保水剂、成膜剂等。在合成树脂方面的应用，可使获得的 产品具有颗料规整、疏松、视比重事宜，加工性能优良等特点，从而基本上取代了明胶和聚乙烯醇作 分散剂。另外在建筑工业施工过程中，主要用于砌墙，灰泥粉饰，嵌缝等机械化施工中；特别在装饰 性施工中，用作粘贴磁砖，大理石，塑料装饰，粘贴强度高，还可以减少水泥用量。用于涂料行业中 作增稠剂，可使涂层光亮细腻，不脱粉，改善流平性能等。用于粉刷石膏、粘结石膏、嵌缝石膏、耐 水腻子中可显著提高其保水性，粘结强度等。

This product is industrial grade HPMC, mainly used as dispersant in the production of PVC, is the main additives for the preparation of PVC by suspension polymerization. In addition, in the production of other petrochemical, building materials, paint removal agent, agricultural chemicals, ink, textile printing and dyeing, ceramics, paper, cosmetics and other products as thickening agent, stabilizer, emulsifier, excipient, water retaining agent, film forming agent, etc. The application in synthetic resin can make the product has the characteristics of regular, loose, depending on specific gravity, excellent processing performance, so as to basically replace gelatin and polyvinyl alcohol as dispersant. In addition, in the construction process of the construction industry, mainly used for building walls, stucco, caulking and other mechanized construction. Especially in decorative construction, used for pasting tile, marble, plastic decoration, paste strength is high, but also can reduce the amount of cement. Used in the coating industry as a thickening agent, can make the coating bright and fine, do not depowder, improve leveling performance. Used in plaster gypsum, bonding gypsum, caulking gypsum, water resistant putty can significantly improve its water retention, bond strength, etc.





五、溶解方法 Dissolution methods

1、取所需数量的水，放入容器中加热至 85℃以上，在慢慢搅拌下逐渐加入本品，纤 维素起初浮在水面上，但逐渐被水分散，形成均匀的淤浆，在搅拌下冷却，直到透明。

2、将总量度 1/3-2/3 的水加热至 85℃以上，加入纤维素，得到热水浆料，再加入剩 余量的冷水，保持搅拌冷却后得到均匀溶液。

3、经表面处理的产品，可在搅拌下直接加入冷水中溶解，为快速溶解，可用氨水或碱水调 PH8-10 后，产品会迅速溶解，形成溶液。

1， Take the required amount of water and heat it in a container to more than 85℃. Gradually add the product under slow stirring. Cellulose floats on the water surface at first, but is gradually dispersed by water to form a uniform slurry. Let cool under stirring until clear.

2， Heat 1/3-2/3 of the total water to more than 85℃, add cellulose, get hot water slurry, and then add the remaining amount of cold water, keep stirring and cooling to get a uniform solution.

3， After the surface treatment of the product, can be stirred directly into cold water to dissolve, for rapid dissolution, available ammonia or alkali water PH8-10, the product will quickly dissolve, forming a solution.

六、包装及贮运 Packing, storage and transportation

包装：外用塑纸袋封装，内用聚氯乙烯塑料袋包装，每袋净重 25kg。
贮存：防雨防晒，防水防湿，密闭通风。 运输：按防潮普通化学品运输。

Packing: Plastic paper bag is used externally, PVC plastic bag is used internally, each bag weighs 25kg net.
Storage: rain proof, sunscreen, waterproof and moisture-proof, airtight and ventilated.
Transportation: According to moisture-proof transportation of common chemicals.







七、公司设备 Company equipment











凯茂星公司产品目录

Catalogue of Kingmax company products

产品	型号	Viscosity		应用该范围
Prooducts	Models	Brookfield	NDJ 2%	Application
HPMC 羟丙甲基纤维素	KM815M	12000-18000	15000-18000	内外墙腻子粉、瓷砖粘结剂，干混砂浆，石膏制品，陶瓷制品等 Putty powder,tile adhesives and dry mix mortar, plasters, ceramic and others dry base building materials etc
	KM860M	24000-36000	48000-72000	
	KM8100M	38000-55000	80000-120000	
	KM8150M	55000-65000	120000-160000	
	KM8200M	Min70000	160000-200000	
	KM8100MS	38000-55000	80000-120000	洗涤剂，清洁用品，水性涂料等 detergent,cosmetic,paints and others water base products as thickener
	KM8150MS	55000-65000	120000-160000	
	KM8200MS	Min70000	160000-200000	
	KM400	200-500	200-500	自流平砂浆等 Self-leveling mortar etc
MHEC 羟乙基甲基纤维素	MX9100M	38000-55000	80000-120000	瓷砖粘结剂，干混砂浆，石膏制品，陶瓷制品等 tile adhesives and dry mix mortar, plasters, ceramic and others dry base building materials etc
	MX9150M	55000-65000	120000-160000	
	MX9200M	Min70000	160000-200000	
	MX9100MS	38000-55000	80000-120000	洗涤剂，清洁用品，水性涂料等 detergent,cosmetic,paints and others water base products as thickener
	MX9150MS	55000-65000	120000-160000	
	MX9200MS	Min70000	160000-200000	
HEC 羟乙基纤维素	KM300	240-360	240-460	家庭清洁用品，涂料，石油开采， 造纸和油墨 household cleaning product , paints, Oilfield , paper and printing ink etc
	KM6000	4800-7200	4800-7200	
		Brookfield	NDJ 2%	
	HEC30000	1500-2500	24000-36000	
	HEC60000	2400-3600	28000-72000	
	HEC100000	4000-6000	80000-120000	
	HEC150000	7000-8000	120000-160000	
	HEC200000	Min 8000	160000-240000	
RDP 可再分散乳胶粉		5013		内外墙腻子粉、瓷砖粘结剂、自流平砂浆、修补砂浆、装饰砂浆、防水砂浆外保温干混砂浆 Putty powder, tile adhesives, self-leveling mortar and other building materials etc
		5015		

八、应用领域 Application fields

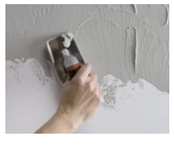
腻 子
内墙腻子 外墙腻子
Putty
Interior wall putty
Exterior wall putty



保 温
玻化微珠防火保温砂浆 复合硅酸盐保温砂浆 珍珠岩保温砂浆 胶粉聚苯颗粒
Heat preservation
Vitrified microbeads fireproof insulation mortar
Composite silicate insulation mortar
Perlite insulation mortar
Rubber powder polybenzene particles



普通砂浆
砌筑砂浆 抹灰砂浆
Ordinary mortar
Masonry mortar
Dry-mixed plastering mortar



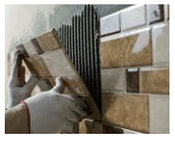
石膏应用
底层粉刷石膏 面层粉刷石膏 保温层粉刷石膏
Gypsum application
Undercoat plaster
Surface layer plaster
Insulation layer plaster



自流平砂浆
垫层自流平砂浆 高强石膏自流平砂浆 建筑石膏自流平砂浆 硬石膏自流平砂浆
Self-leveling mortar
Cushion self-leveling mortar
Highstrengthgypsumself-levelingmortar
Building plaster self-leveling mortar
Anhydrite self-leveling mortar



瓷砖胶粘剂
普通瓷砖胶胶粘剂 聚合物瓷砖胶粘剂 重砖型瓷砖胶粘剂
Adhesives for tiles
Common adhesives for tiles
Polymer adhesives for tiles
Heavy brick type adhesives for tiles



家庭洗涤用品
洗涤剂 清洁用品
Household washing products
Detergent
Cleaning products



水性涂料
真石漆 乳胶漆
Waterborne paint
Lacquer
Latex paint



陶瓷制品
蜂窝陶瓷 催化剂载体 陶瓷模具
Ceramic products
Honeycomb ceramics
Catalyst carrier
Ceramic mold



销售网络 Sale and Service

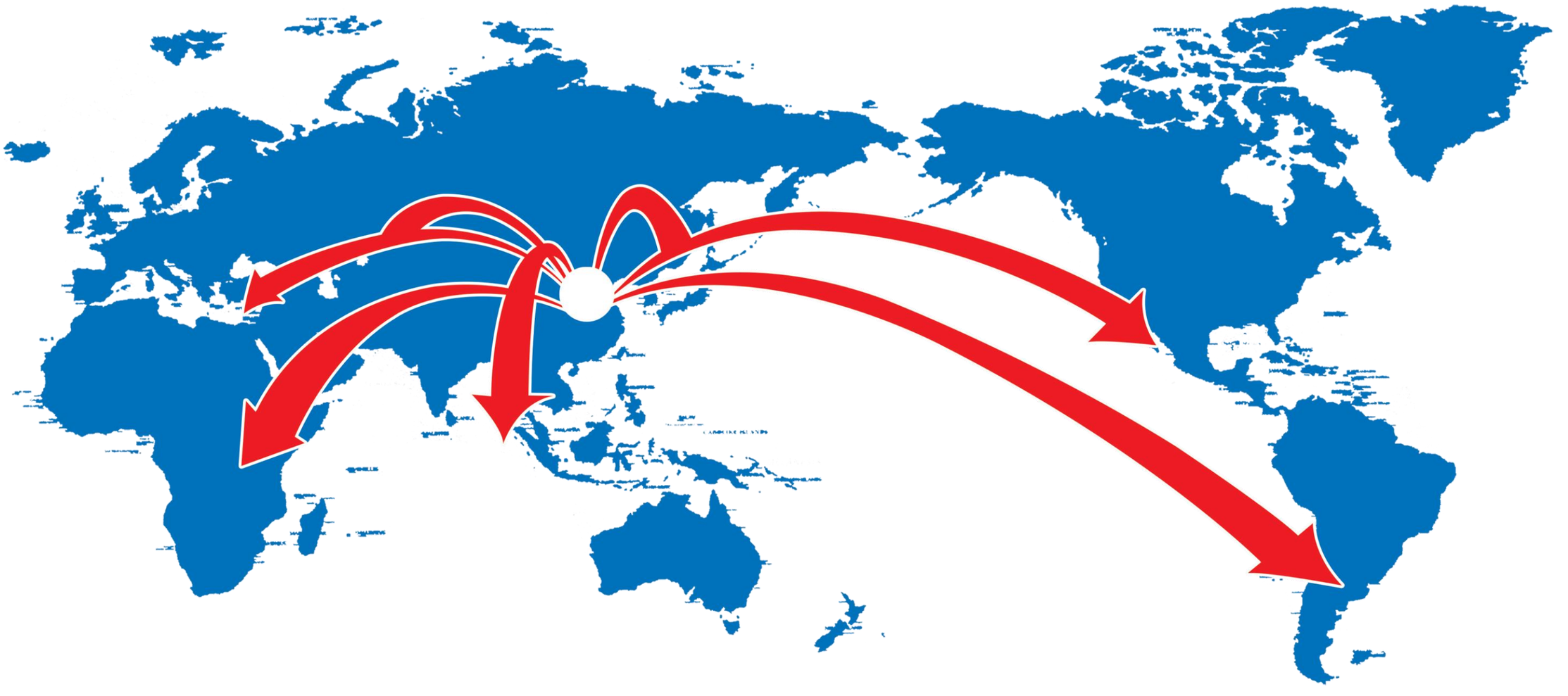
辐射全国　放眼世界

“诚招天下客，誉从质中来”。长期以来，公司十分注重与客户的友好合作，保证品质与服务，珍视荣誉，从而赢得了客户的信赖与支持。与朋友广泛合作，共享繁荣，也成为我们最真诚的追求。

"Soliciting clients in earnest，Win reputation by quality".

From the beginning, in order to win the customer's trust and support, our company always attached great importance to friendly cooperate with customers, to ensure quality and service, and to value honor.

"To widely cooperate with friends and to share prosperity" has become our most sincere pursuit.



远销俄罗斯、印度、新加坡、南非、巴西、澳大利亚等国家和地区