



重庆国际复合材料股份有限公司
CHONGQING POLYCOMP INTERNATIONAL CORPORATION

创新复合材料 引领绿色未来

INNOVATIVE COMPOSITE MATERIAL
TOWARDS THE GREEN FUTURE



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公司网站

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玻璃纤维领域

系统方案解决专家

GLASS FIBER SOLUTION EXPERT



科技·环保·绿色·创新

TECHNOLOGY ENVIRONMENT PROTECTION GREEN INNOVATE

目录 CONTENTS

- 1 企业简介
CORPORATE PROFILE
- 2 企业历程
CORPORATE HISTORY
- 3 产品介绍
PRODUCT INTRODUCTION
- 4 核心研发体系
THE CORE RESEARCH AND DEVELOPMENT SYSTEM
- 5 全球生产基地及营销网络
GLOBAL MANUFACTURING BASE AND MARKETING NETWORK

CORPORATE PROFILE

企业简介



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重庆国际复合材料股份有限公司(以下简称“CPIC”)成立于1991年,是云天化集团旗下玻纤及复合材料板块的重要支柱企业。公司专注于高性能新材料,致力于研制品质稳定、持续创新的高性能产品,为客户提供更具价值的服务和应用解决方案,是一家以研发、生产、销售玻璃纤维及复合材料为核心业务的高新技术企业。

玻璃纤维作为复合材料的增强材料,具有轻质、高强、耐久、绿色环保等特点,可运用于风电叶片、光伏支架边框、汽车及轨道交通、电子电器、电力绝缘、建材、门窗、工业管罐、航空航天等重要领域。经过30余年的不断发展,公司现拥有7个全球生产基地、16条玻纤池窑生产线,玻纤年产能超过100万吨,产能规模位居世界前列,在清洁能源、节能减排、5G通讯等核心业务领域居于全球领先地位。公司营销网络遍布全球,在美国、荷兰和香港等设立贸易子公司,产品畅销全球数十个国家和地区,与通用电气、杜邦、巴斯夫、西门子歌美飒、维斯塔斯、华为、时代新材、中材科技、金发科技等国际知名企业建立了

长期稳定的战略合作关系。

通过多年的探索和努力,公司现已拥有包括ECT、TM、TM[®]等多项发明和实用型专利,主要产品通过德国船级社(GL)、英国劳氏(LR)、美国FDA认证,自成立以来,公司先后荣获中国工业大奖表彰奖、国家知识产权优势企业、中国专利优秀奖、中国名牌产品、国家重点新产品、重庆市优秀创新型企业、重庆市科技进步一等奖等诸多殊荣。

按照云天化集团以“肥料及现代农业、玻纤及复合材料、精细化工及新材料”为主业,以“打造具有全球影响力绿色产业集团”为愿景的发展思路,公司主动适应经济发展新常态,不断深化“产业精耕化、制造精良化、市场精准化、管理精细化”的发展战略,优化国际化产能布局并积极延伸产业链,努力研发技术含量高、环境友好的新型玻纤产品,全面提升企业的核心竞争力,向成为全球最具价值的玻璃纤维及复合材料企业的目标不断努力迈进。

Chongqing Polycorp International Corporation (hereinafter referred to as "CPIC" or "the Company"), established in 1991, is an important pillar of Yuntianhua Group Co., Ltd. in glass fiber and composite material industry. As a high-tech enterprise with the core business of R&D, production, and sales of glass fiber and composite materials, CPIC focuses on new high-performance materials and is committed to developing high-performance products with stable quality and continuous innovation, so as to provide customers with valuable services and application solutions.

As a reinforcing material for composite materials, glass fiber has the characteristics of lightweight, high strength, durability, and environmental friendliness. It can be used in wind power blades, photovoltaic bracket frames, automobiles and rail transit, electronic appliances, electrical insulation, building materials, doors, and windows, industrial pipes and tanks, aerospace and other important fields. In more than 30 years of continuous development, CPIC now has 7 production bases and 16 glass fiber furnace production lines around the world, with an annual production capacity of more than 1 million tons of glass fiber, ranking among the highest in the world in terms of production capacity. The core business areas such as clean energy, energy conservation, emission reduction, and 5G communication are in a leading position globally. The core business areas such as emission reduction and 5G communication are in a leading position globally. The company's marketing network spreads all over the world, and it has established trading subsidiaries in the United States, the Netherlands and Hong Kong SAR of China. Its products are sold in dozens of countries and regions around the world, and it has established long-term and stable strategic cooperative relations with international well-known enterprises such as General

Electric, DuPont, BASF, Siemens Gamesa, Vestas, Huawei, Zhuzhou Times New Material Technology, Sinoma Science & Technology and Kingfa Science & Technology.

Through years of exploration and efforts, CPIC now has a number of inventions and practical patents including ECT, TM, and TM[®]. The main products have passed Germanischer Lloyd (GL), Lloyd's Register of Shipping (LR), and U.S. Food and Drug Administration (FDA) certification. Since its establishment, CPIC has successively won many honors, such as China Grand Award for Industry, National Intellectual Property Advantage Enterprise, China Patent Excellence Award, China Famous Brand Product, National Key New Product, Chongqing Outstanding Innovative Enterprise, Chongqing Science and Technology Progress First Prize and many other honors.

In the light of the development idea of Yuntianhua Group, which takes "fertilizers and modern agriculture, glass fiber and composite materials, fine chemicals and new materials" as its main business and "building a green industry group with global influence" as its vision, CPIC takes the initiative to adapt to the new normal of economic development, continuously deepens the development strategy of "intensive industrial cultivation, sophisticated manufacturing, market precision, and refined management", optimizes the international production capacity layout and proactively extends the industrial chain, strives to develop new glass fiber products with high technology and environmental friendliness, comprehensively enhances its core competitiveness, and makes continuous efforts toward the goal of becoming the enterprise with the most valuable glass fiber and composite material in the world.

CORPORATE HISTORY

企业历程

1971年

重庆市玻璃纤维厂筹建;
In 1971, Chongqing Fiberglass Factory was established;

1986年

引进国内第一条直接法玻璃纤维生产线;
In 1986, the first production line for fiberglass tank furnace with direct method in China was introduced;

1991年

重庆国际复合材料有限公司成立 (CPIC), 重庆市玻璃纤维厂持股70%;
In 1991, CPIC was established and Chongqing Fiberglass Factory held 70% shares;

1999年

重庆市玻璃纤维厂将所持CPIC股权转让给云天化, 云天化成为CPIC最大股东
In 1999, Chongqing Fiberglass Factory transferred its shares to Yuntianhua Group, and then Yuntianhua Group became the biggest shareholder of CPIC;

2004年

重庆国际复合材料有限公司出资收购重庆市玻璃纤维厂
In 2004, CPIC purchased Chongqing Fiberglass Factory;

2006年

2006年, 投资设立重庆天勤材料有限公司, 从事电子织物的研发与生产销售, 开始向产业链下游延伸的进程;
In 2006, CPIC made investment to establish Chongqing Tianqin Material Co., Ltd. which was engaged in R&D, production and sales of glass fabric, starting to extend the businesses to downstream of the industrial chain;

2011年

CPIC完成整体收购巴西卡皮瓦里工厂, CPIC巴西玻璃纤维有限公司正式成立, 拉开了公司全球战略布局的序幕;
In 2011, CPIC completed acquisition of Brazil Capivari Factory. CPIC Brasil Fibras de Vidro Ltda. was formally established, starting global strategic layout of CPIC

2013年

CPIC收购常州宏发纵横新材料科技股份有限公司60%股份;
In 2013, CPIC purchased 60% shares of Changzhou Hongfa Zongheng Advanced Materials Technology Co., Ltd;

2014年

CPIC收购巴林阿巴桑玻璃纤维有限公司60%股权, 成立CPIC阿巴桑玻璃纤维有限公司;
In 2014, CPIC purchased 60% equity of CPIC Abahsain Fiberglass W.L.L. and established CPIC (Bahrain) Fiberglass Co., Ltd;

2015年

上海天寰材料科技有限公司成立, 下设四家子公司: 重庆天泽、重庆天勤、上海天玮、珠海珠玻, 实现电子级玻璃纤维纱、玻纤布和工业级玻纤布一体化;
In 2015, Shanghai Tianhuan Material Technology Co., Ltd. was established, with four subsidiary companies: Chongqing Tianze Advanced Materials Co., Ltd., Chongqing Tianqin Material Co., Ltd., Shanghai Tianwei Fiberglass Co., Ltd. and Zhuhai Zhubo Electronic Material Co., Ltd, achieving the integration of electronic grade fiberglass roving, glass fabric and industrial grade glass fabric

2017年

CPIC 完成股份制改造, 改制为重庆国际复合材料股份有限公司;
In 2017, the shareholding system reform was completed and the company was renamed CPIC;

2018年

重庆亿焯新材料科技有限公司成立, 下设两家子公司: 重庆亿焯绝热新材料科技有限公司、重庆亿焯阿尔法新材料科技有限公司;
In 2018, Chongqing Yixuan New Material Technology Corp was established;

2020年

投资设立重庆风渡新材料有限公司。
In 2020, Chongqing Fengdu New Material Corp., Ltd. was established.

PRODUCT INTRODUCTION

产品介绍

细纱 ▶

Yarn

粗捻纱 Single yarn

并捻纱 Plyed yarn

膨体纱 Texturized yarn

织物及玻璃纤维毡 ▶

Fabric & Mat

缝编毡 Stitched mat

工业布 Industrial fiberglass cloth

表面毡 Surface tissue

短切毡 Chopped strand mat

方格布 Woven roving

电子布 Electronic fiberglass cloth

多轴向织物 Multi-axial fabrics



▲ 热塑性玻璃纤维

The rmoplastic product

短切纱 Chopped strand

热塑长纱 LFT

◀ 热固性玻璃纤维

Thermosetting fiberglass

直接纱 Direct roving

合股纱 Multi-end roving

行业领先

Industry Leading

玻璃纤维产品被广泛用于城市建筑、室内装饰、汽车工业、医疗器械、环保体育、食品包装、航空航天、机械电子、新能源等领域，不断提升人类的生活质量，造福社会，推动科学技术的进步。

The fiberglass products of CPIC have been widely utilized in construction, decoration, automotive industries, medical equipment, sports equipment, food packaging, aero application, mechanical and electronic fields, new energy etc. These applications have been consistently offering contributions to our society, which pushes forward with our technology and improves our living quality.

《智能制造》
INTELLIGENT
MANUFACTURING

《优良设备》
EXCELLENT
EQUIPMENT

《先进工厂》
ADVANCED
FACTORY



创新
Innovate

诚信
Credible



务实
Practical



协作
Cooperate



主要产品

Main Products

CPIC致力于为客户提供品质稳定的高性能环保玻纤产品，玻璃类型包括E、ECR、ECT、TM、HT、HL等，具有多项自主知识产权，能够满足客户多样化的需求。

CPIC is committed to providing stable-quality environmentally friendly and high-performance fiberglass products to customers. Glass types include E, ECR, ECT, TM, HT, HL etc. with independent intellectual property and can meet different demands of customers.

E-glass

通用性无碱玻璃纤维。CPIC是国内最早(1986年)用直接法生产E玻璃纤维的制造商。

General Alkali-free Fiberglass. CPIC is the first manufacturer of E glass fiber produced by direct-melt process in 1986.

ECR-glass

耐腐蚀玻璃纤维。CPIC在国内率先(2005年)实现了ECR-glass批量化生产。

Corrosion Resistant Fiberglass. CPIC first realized mass production of ECR glass in China (2005).

ECT-glass

高性能通用型玻纤。它兼具耐腐蚀性好、强度高、颜色浅的特点，是一种环境友好的高性能玻璃纤维。

CPIC是在国内率先开发并量产此类玻纤的供应商。

General High-performance Fiberglass. It has good corrosion resistance, high strength and light color with environmentally friendly. CPIC is one of the earliest suppliers to develop and produce in China.

TM-glass

高强高模玻璃纤维。CPIC是全球风电用高强高模玻璃纤维的最大生产商。

High strength and High modulus Fiberglass. CPIC is the largest manufacturer of high modulus fiberglass in wind power application.

HT-glass

高强S级玻璃纤维。CPIC是国内首家且唯一一家池窑法量产S级玻纤的供应商。

Ultra-High Strength S grade fiberglass. CPIC is the first and only supplier of S grade fiberglass with commercialized production in China.

HL-glass

低介电玻璃纤维。CPIC是国内首家池窑法量产低介电玻璃纤维的供应商，是该领域的技术引领者。

Low Dielectric Fiberglass. CPIC is the first leading supplier of low dielectric glass fiber with commercialized production in China.

ECR-Glass»

耐腐蚀玻璃纤维 CORROSION RESISTANT FIBERGLASS

ECR玻纤是一种耐腐蚀性能优异的玻璃纤维，专门应用于耐腐蚀性要求苛刻的行业。其耐酸、耐碱、耐盐、耐高温和耐气候性能都大幅优于传统的E玻纤。

ECR-glass is a kind of glass fiber with excellent corrosion resistance, specially used in strict requirements Industries. Acid resistance, alkali resistance, salt resistance, high temperature resistance and weather resistance of ECR-glass are much better than the traditional E-glass.

ECR玻纤主要用途

Application Of ECR-Glass

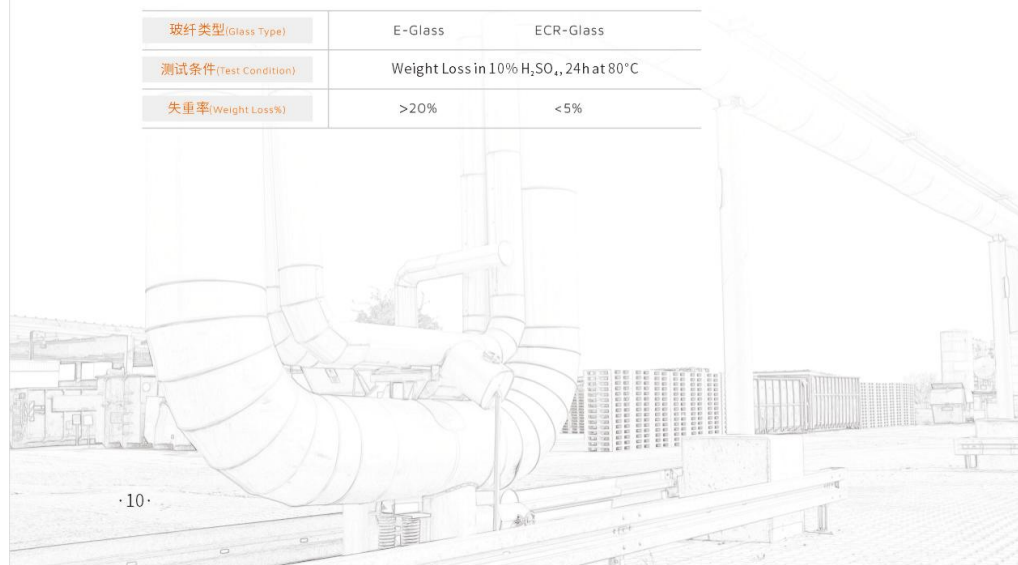
耐酸管罐、供水管道(尤其是盐碱地区的)、污水管道、耐酸电气绝缘棒、玻璃钢烟囱内筒等。

ACID-RESISTANT PIPES AND TANKS. WATER SUPPLY PIPES (ESPECIALLY IN SALINE-ALKALI AREAS). SEWAGE PIPES. ACID-RESISTANT ELECTRICAL INSULATING RODS, FRP CHIMNEY INNER TUBES, ETC.

ECR耐酸性能表

Acid-Resistance Of ECR-Glass

玻纤类型(Glass Type)	E-Glass	ECR-Glass
测试条件(Test Condition)	Weight Loss in 10% H ₂ SO ₄ , 24h at 80°C	
失重率(Weight Loss%)	>20%	<5%



ECT-Glass»

耐腐蚀玻璃纤维 CORROSION RESISTANT FIBERGLASS

ECT玻纤是一种高性能通用无碱玻璃纤维，具有耐腐蚀性优异、机械性能和电绝缘性能好、颜色浅以及性价比高的特点，可广泛用于各种工业用途。

ECT-glass is a kind of general alkali-free glass fiber with high performance. It has excellent corrosion resistance, good mechanical and electrical insulation properties, light color and high cost performance. It can be widely used in various industrial applications.

ECT玻纤主要用途

Application Of ECT-Glass

风电行业、城市污水管道、CNG气瓶、电力绝缘行业、抽油杆、海水处理设备、盐碱地用输油管、轨道交通、高档轿车内饰、耐高温水箱、消音器填充料等绝大多数复合材料领域。

WIND POWER INDUSTRY. URBAN SEWAGE PIPELINE. CNG CYLINDER. POWER INSULATION INDUSTRY, SUCKER ROD, SEAWATER TREATMENT EQUIPMENT. SALINE-ALKALI OIL PIPELINE, RAIL TRANSIT, HIGH-GRADE CAR INTERIOR DECORATION, HIGH-TEMPERATURE WATER TANK, MUFFLER FILLING MATERIALS, AND MOST OTHER COMPOSITE FIELDS.

ECT性能参数表

Properties Of ECT-Glass

性能(Property)	单位Unit	测试方法Test Method	E-Glass	ECT-Glass
密度(Density)	(g/cm ³)	ASTM D 1505	2.59~2.63	2.58~2.62
折射率(Refractive index)	(25°C)	ASTM D 1648	1.54-1.56	1.565
软化温度(Softening point)	(°C)	ASTM D 338	840~850	880~900
弹性模量(Elastic modulus)	(Gpa)	ASTM D 2343	78~82	82~86
拉伸强度(Tensile strength)	(Mpa)	ASTM D 2343	2100~2500	2300~2700
耐酸性(Acid resistance)	(%)	Weight Loss in 10% H ₂ SO ₄ , 24h at 80°C	>20	<5



TM®-Glass »

高强高模玻璃纤维 HIGH STRENGTH AND HIGH MODULUS FIBERGLASS

TM®系列玻纤是一种高强高模玻璃纤维,具有更高的弹性模量和拉伸强度,抗冲击性能好,化学稳定性和耐高温性能优异,广泛应用于大型风机叶片、航空、航天、国防军工等对复合材料性能要求比较苛刻的领域。

TM®series is a kind of high strength and high modulus glass fibers, which has higher elastic modulus and tensile strength, good impact resistance, excellent chemical stability and high temperature resistance. They are widely used in large wind turbine blades, aerospace, national defense and other fields with stringent requirements.

TM®玻纤主要用途

Application Of TM-Glass

大型风机叶片主梁、大型型材(大跨度梁结构、人行天桥)、军用防弹板、高压管道、体育休闲用品、游艇主龙骨部位等。

SPARCAP OF WIND TURBINE BLADES, LARGE PROFILES (LARGE SPAN BEAM STRUCTURE, FOOTBRIDGE), MILITARY BULLETPROOF BOARD, HIGH-PRESSURE PIPELINE, SPORTS AND LEISURE GOODS, YACHT MAINKEEL PARTS, ETC.

TM®性能参数表

Properties Of TM-Series

性能(Property)	单位Unit	测试方法Test Method	E-Glass	TM®-Glass	TM II-Glass
密度(Density)	(g/cm³)	ASTM D 1505	2.59~2.63	2.58~2.62	2.58~2.62
软化温度(Softening point)	(°C)	ASTM D 338	840~850	900~920	910~930
弹性模量(Elastic modulus)	(Gpa)	ASTM D 2343	78~82	88~92	95~97
拉伸强度(Tensile strength)	(Mpa)	ASTM D 2343	2100~2500	2700~3100	2800~3200
耐酸性(Acid resistance)	(%)	Weight Loss in 10% H ₂ SO ₄ 24h at 80°C	>20	<5	<5

HT-Glass »

高强S级玻璃纤维 ULTRA-HIGH STRENGTH S GRADE FIBERGLASS

HT玻纤是一种高强S级玻璃纤维,其力学性能是所有玻纤材料中最高的。HT玻纤的拉伸强度和弹性模量相比E玻纤高出30%以上,密度比E玻纤低5-10%,介电性能比E玻纤低25%,制作的结构部件重量更轻,耐疲劳性能更好。

HT-glass is an S-Grade glass fiber with ultra-high strength, which is the highest mechanical properties among all fiberglass types. Comparing with E-glass, the tensile strength and modulus of HT glass fiber are 30% higher, the density is 5-10% lower, and the dielectric property is 25% lower than E-glass. The composite made by HT-glass is even lighter and better fatigue resistance.

HT玻纤主要用途

Application Of HT-Glass

航空、航天、兵器、舰船、导弹发动机壳体、宇航飞机内衬、枪托、发射炮筒、防弹装甲、直升机桨叶、飞机内饰及结构部件、耐高温材料、光缆芯等。

AEROSPACE, WEAPONS, WARSHIPS, MISSILE ENGINE SHELLS, AEROSPACE AIRCRAFT LINING, GUNBUTTS, LAUNCHING BARRELS, BULLET-PROOF ARMOR, HELICOPTER BLADES, AIRCRAFT INTERIORS AND STRUCTURAL COMPONENTS, TEMPERATURE-RESISTANT MATERIALS, OPTICAL CABLE CORES, ETC.

HT性能参数表

Properties Of HT-Glass

性能(Property)	单位Unit	测试方法Test Method	E-Glass	HT-Glass
密度(Density)	(g/cm³)	ASTM D 1505	2.59~2.63	2.42~2.51
软化温度(Softening point)	(°C)	ASTM D 338	840~850	935~950
弹性模量(Elastic modulus)	(Gpa)	ASTM D 2343	78~82	95~100
拉伸强度(Tensile strength)	(Mpa)	ASTM D 2343	2100~2500	3300~3700
耐酸性(Acid resistance)	(%)	Weight Loss in 10% H ₂ SO ₄ 24h at 80°C	>20	<5

THE CORE RESEARCH AND DEVELOPMENT SYSTEM

核心研发体系



作为国家级火炬重点高新技术企业,CPIC在窑炉设计、玻璃配方开发、铂金漏板设计加工、浸润剂研发生产等核心领域拥有卓越领先的研发能力。

公司创新中心拥有2.6万平方米的实验基地、一支由技术研发专家领衔、具有中高级技术职称人员组成的科技人才队伍及完善的分析检测设备,并与科研院所及众多高校建立了密切合作关系,为未来的发展提供了强有力的支撑和保障。

公司研发团队围绕公司产品差异化战略,以市场需求为导向,以技术创新为支撑,建立了核心研发体系。通过多年的探索和努力,现已拥有世界一流的自主核心技术,包括TM、ECT等发明和实用型专利67项,代表了行业科技发展领先水平的技术成果。

As a key national high and new technology torch enterprise, CPIC has leading R&D capacity in kiln design, glass formula, bushing design and processing, treating compound R&D and production and other core fields.

With a 26000m² area of R&D and experimental base, first-class technical R&D team and complete analytical and detecting equipment, CPIC has established close cooperative relationship with scientific research institutes, and many universities, providing strong support and guarantee for future development.

Focusing on the product differentiation strategy, the R&D team of CPIC has established the core R&D system with market demands as the orientation and technological innovation as the support. Through years of exploration and efforts, now we have the world-class independent technologies, including TM, ECT and other inventions and utility-type patent 67 items in total, which claims to be an important base of scientific research and development for composite materials.



GLOBAL MANUFACTURE BASE AND MARKETING NETWORK

全球生产基地及营销网络



● 巴西 CPIC BRASIL FIBRAS DE VIDRO LTDA.

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