



敬业集团
JINGYE GROUP

敬业
集团

装点
世界河山
Coloring the World



敬业彩涂板

河北敬业高品钢科技有限公司

Hebei Jingye High-Quality Steel Technology Co., Ltd.



绿色敬业 精品敬业 诚信敬业

Environmental Jingye . Quality Jingye . Integrity Jingye



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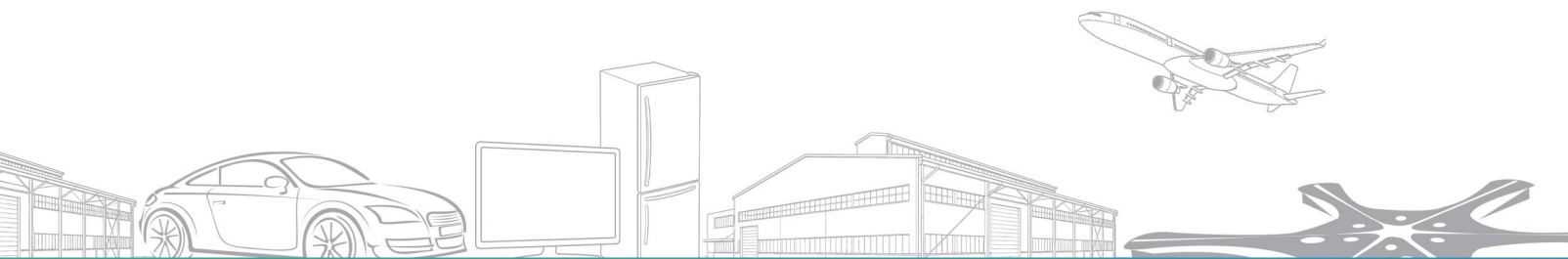
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河北敬业高品钢科技有限公司

Hebei Jingye High-Quality Steel Technology Co., Ltd.

品牌理念篇

敬业澜·装点世界河山

Chapter of Brand Philosophy
Jingye Luster: Coloring the World

01

做好产品
是最好的为客户服务

Manufacturing superior products is the
best service for customers

(一) **品牌释义：**（敬业蓝→敬业澜）

继“敬业蓝”后，敬业集团匠心打造又一力作 - “敬业澜”彩涂板。

Brand Definition: (Jingye Blue → Jingye Luster)

Following 'Jingye Blue', Jingye Group proudly presents its next masterpiece – 'Jingye Luster' color coated steel.

(二) **“敬业澜”品牌使命：**

装点世界河山。

Brand Mission of 'Jingye Luster':

Coloring the World.

(三) **核心承诺：**

敬业彩涂板，安心数十年。

Core Commitment:

Jingye Color Coated Steel , Decades of Reliability.



企业实力篇

深耕钢企底蕴·智能绿色制造

Chapter of Enterprise Strength

Forged in Centuries of Steel Craftsmanship · Intelligent Eco-Friendly Manufacturing



高品钢简介

Brief Introduction of High-Quality Steel

河北敬业高品钢科技有限公司，是敬业集团深耕钢铁主业、倾力打造的高端精品钢标杆项目。总投资47亿元，建设260万吨1450mm系列生产线，配置2条酸连轧、1条连退、1条罩退、5条镀锌、2条彩涂机组，主营冷硬板、冷轧板、镀锌板、镀铝锌板、彩涂板等系列产品，集研发、生产、技术服务与市场销售于一体，产品深度应用于汽车制造、家电、高端建筑等众多领域。

科技创新智能智造·秉持“匠心品质+智能高效”核心理念，专注高端冷轧涂镀工艺升级与技术创新，汇聚200余名行业顶尖技术人才，配置2000余万元高端科研检测设备，建立化学、物理、环境模拟三位一体检测体系，实现全流程精细化质量管控。

Hebei Jingye High-Quality Steel Technology Co., Ltd. is a benchmark project of Jingye Group, dedicated to deep cultivation in the steel industry and focused on producing high-end premium steel products. With a total investment of RMB 4.7 billion, the company has built 1450mm Production Lines with an annual capacity of 2.6 million tonnes, equipped with 2 pickling line-tandem cold rolling mill (PL-TCM) units, 1 continuous annealing line, 1 batch annealing line, 5 hot-dip galvanizing lines, and 2 color coating lines. Its main products include full-hard cold-rolled coils, cold-rolled coils, hot-dip galvanized coils, hot-dip aluminum-zinc coated coils, and color coated steel. Integrating R&D, production, technical services, and market sales, the company's products are widely used in automotive manufacturing, home appliances, high-end construction, and many other fields.

Technological innovation and smart manufacturing. Adhering to the core philosophy of "craftsmanship quality+intelligent efficiency," the company focuses on process upgrading and technological innovation in high-end cold-rolling and coating processes. It has gathered over 200 top technical experts in the industry and equipped itself with more than RMB 20 million worth of high-end R&D and testing facilities. A trinity testing system integrating chemical, physical, and environmental simulation has been established, enabling refined quality control throughout the entire production process.

47 亿元

总投资

260 万吨

1450mm系列生产线

200 余名

行业顶尖技术人才

2000 余万

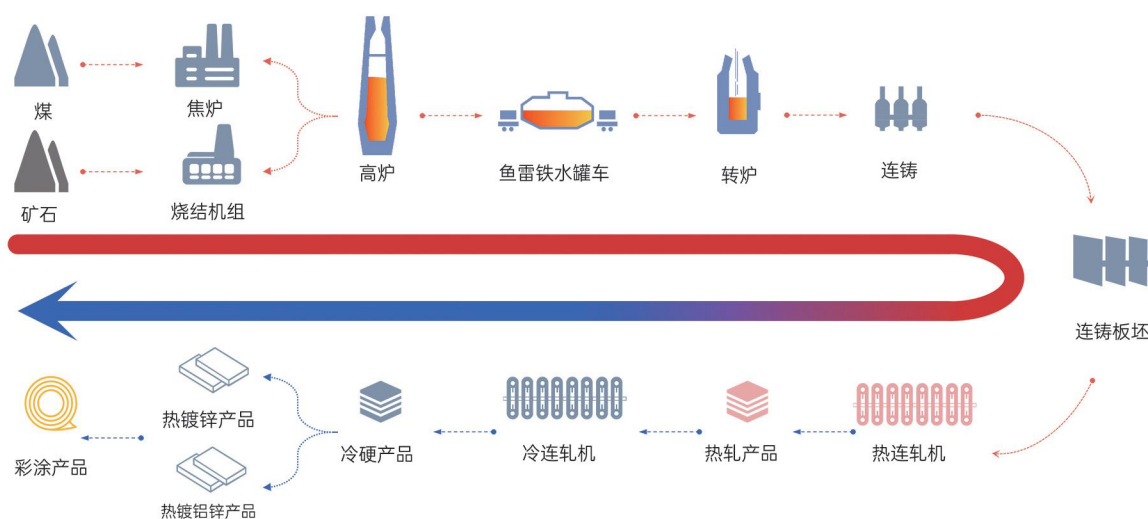
高端科研检测设备



Integrated quality management system 一贯制质量管理体系

依托集团全流程钢铁产业链，4万工匠与4000余名工艺技术专家跨工序协同智造，从矿石到炼铁、炼钢、热轧、冷轧、镀锌到彩涂，实行全流程一贯制质量管控。联合阿克苏诺贝尔、KCC等国际涂料品牌定制加工；通过碳足迹可视化平台精细化控碳，打造稳定定制化高端钢材方案，践行绿色可持续发展。

Leveraging the Group's full-process steel industry chain, we unite 40,000 skilled craftsmen and over 4,000 process experts in cross-process collaboration for smart manufacturing. From iron ore to ironmaking, steelmaking, hot rolling, cold rolling, galvanizing, and color coating, the company implements end-to-end integrated quality control throughout the entire process. In partnership with international coating brands such as AkzoNobel and KCC, it offers customized processing. Through a carbon footprint visualization platform, it carries out refined carbon management, delivering stable, customized high-end steel solutions while pursuing green and sustainable development.



高品钢发展里程碑

Development Milestones of Jingye High-Quality Steel

2018

- 260万吨涂镀板项目立项，拉开集团向高端精品钢转型序幕。

In 2018, the 2.6-million-tonne coated sheet project was officially initiated, marking the beginning of the Group's transformation toward high-end premium steel products.

2020

• 5月31日

一期1450mm酸轧机组第一卷产品顺利下线。

On May 31, 2020, the first coil from the Phase I 1450mm pickling line-tandem cold rolling mill (PL-TCM) was successfully rolled off the line.

• 9月19日

敬业集团冷轧汽车钢实现批量应用。

On September 19, 2020, cold-rolled automotive steel from Jingye Group was successfully used in mass application scenarios.

• 2月

一期1450mm冷轧工程正式开工。

In February 2019, the Phase I 1450mm cold rolling project officially commenced construction.

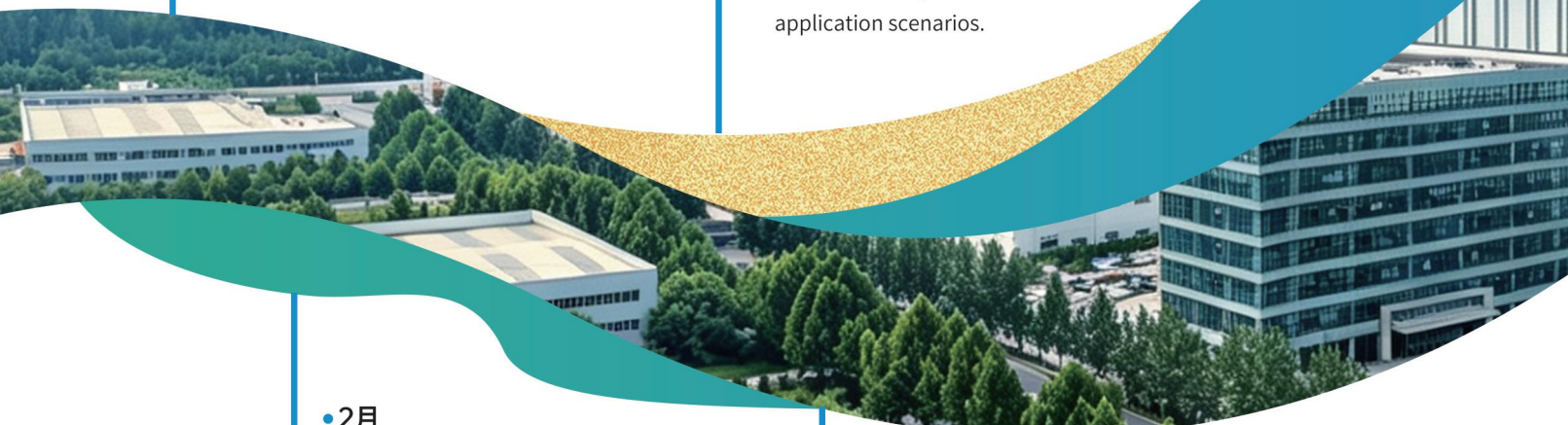
2019

• 4月

彩涂机组投产，完善涂镀产品体系，实现冷轧、镀锌、彩涂一体化生产。

In April 2021, the color coating line was put into operation, improving the coated product portfolio and achieving integrated production of cold-rolled, galvanized, and color-coated products.

2021



▶ 2022年

• 5月

二期1450mm项目启动。

In May 2022, the Phase II 1450mm project was launched.

• 11月

获评国家级高新技术企业。

In November 2022, it was recognized as a National High-tech Enterprise.

▶ 2024年

- 通过韩国KS (KSD3506) 热镀锌认证、日标冷轧板及镀锌板认证；成功试产国标超低碳钢DX54D+Z。

In 2024, it obtained Korean KS (KSD3506) hot-dip galvanized certification, as well as Japanese Industrial Standards (JIS) certification for cold-rolled and galvanized sheets; and successfully trial-produced the Chinese national standard ultra-low carbon steel grade DX54D+Z.

- 荣获河北省专精特新中小企业称号同年被认定为河北省创新型中小企业。

In 2023, it was awarded the title of "Specialised and Sophisticated SME" of Hebei Province, and in the same year, it was recognized as an Innovative SME of Hebei Province.

▶ 2023年

2018-2026

冷轧、彩涂、认证、加工中心

2018-2026

Cold Rolling, Color Coating, Certification, Processing Center

高品钢发展里程碑

Development Milestones of Jingye High-Quality Steel

▶ 2025年

● 3月20日

成功生产冷轧高强钢
HC340LAD+Z。

On March 20, 2025, cold-rolled high-strength steel grade HC340LAD+Z was successfully manufactured.

● 4月10日

通过IATF16949汽车行业
质量体系认证。

On April 10, 2025, it passed the IATF 16949 automotive industry quality management system certification.

● 9月11日

0.20—0.25mm极薄轧硬卷
试制成功。

On September 11, 2025, ultra-thin full-hard coils with a thickness of 0.20–0.25 mm were successfully trial-produced.

● 9月

成功量产极限宽度1299mm
家电彩涂板。

In September 2025, mass production of home appliance color coated steel with a maximum width of 1299 mm was successfully achieved.

● 10月30日

厚规格双相钢CR340/590DP
研发获重大突破。

On October 30, 2025, a major breakthrough was achieved in the R&D of thick-gauge dual-phase steel CR340/590DP.

● 11月

敬业镀锌卷批量应用于格力家电
制造。

In November 2025, galvanized coils from Jingye Group were successfully used in GREE home appliance manufacturing.

● 12月11日

镀锌低合金高强钢（LAD）
系列产品成功研发。

On December 11, 2025, the galvanized low-alloy high-strength steel (LAD) series products were successfully developed.

● 入选河北省先进级智能工厂名单。

In 2025, it was included in the list of Hebei Provincial Advanced-Level Smart Factories.



▶ 2026年

• 3月18日

高品钢加工服务中心正式投产，启动“制造+深加工+配送+技术服务”一体化模式，延伸服务链条、深耕终端市场。

On March 18, 2026, the High-quality Steel Processing Service Centre was officially put into operation, launching an integrated model of "manufacturing + deep processing + distribution + technical services", extending the service chain and deepening penetration in the end-user market.

• 4月23日

成功开发镀铝锌热成型钢 S400GD+AZ。

On April 23, 2026, aluminum zinc coated hot formed steel S400GD+AZ was successfully developed.

• 5月14日

成功开发冷系产品超深冲钢 DC57D+Z，满足汽车油箱、门内板及高端家电复杂壳体等高难度成型需求。

On May 14, 2026, the cold-rolled ultra-deep drawing steel grade DC57D+Z was successfully developed, meeting the demanding forming requirements for automobile fuel tanks, inner door panels, and complex shells of high-end home appliances.

• 5月21日

高品钢连退机组成功研发DC06超深冲钢。

On May 21, 2026, high-quality Steel successfully developed DC06 ultra-deep drawing steel on its continuous annealing line.



» 资质荣誉墙

Wall of Qualifications & Honors

2021年

入选河北省战略性新兴产业创新百强企业

In 2021, it was selected as one of the "Top 100 Innovative Enterprises in Strategic Emerging Industries of Hebei Province".

2022年

被认定为国家级高新技术企业

In 2022, it was recognized as a National High-tech Enterprise.

2023年

荣获河北省专精特新中小企业称号同年被认定为河北省创新型中小企业

In 2023, it was awarded the title of "Specialised and Sophisticated SME" of Hebei Province, and in the same year, it was recognized as an Innovative SME of Hebei Province.

2025年

凭借智能制造技术入选河北省先进级智能工厂名单

In 2025, leveraging its smart manufacturing technologies, it was included in the list of Hebei Provincial Advanced-Level Smart Factories.





ISO9001质量管理体系
认证证书

ISO 9001 Quality Management
System Certification



ISO14001环境管理体系
认证证书

ISO 14001 Environmental Management
System Certification



ISO45001职业健康安全
管理体系认证证书

ISO 45001 Occupational Health and Safety
Management System Certification



能源管理体系认证证书

Energy Management System
Certification



IATF 16949认证证书

IATF 16949 Certification
(Automotive Quality Management System)



日本JIS认证01

Japanese Industrial Standards
(JIS) Certification



日本JIS认证02

Japanese Industrial Standards
(JIS) Certification



韩国KS认证01

Korean Standards (KS)
Certification



韩国KS认证02

Korean Standards (KS)
Certification



印尼SNI认证01

Indonesian National Standard
(SNI) Certification



印尼SNI认证02

Indonesian National Standard
(SNI) Certification

精研深耕 攻坚创新

In-depth research, persistent cultivation; tackling challenges, driving innovation.



敬业高品钢始终以科技创新为高质量发展核心引擎，坚持技术驱动、迭代创新，汇聚硕士、本科核心骨干、高级工程师、专业技术工匠及外聘行业专家等200余人专业研发队伍，构筑坚实技术人才梯队。

Jingye High-Quality Steel consistently takes technological innovation as the core engine for high-quality development, adhering to technology-driven and iterative innovation. It has assembled a professional R&D team of over 200 members, including core talents with master's and bachelor's degrees, senior engineers, professional technical craftsmen, and externally hired industry experts, thereby building a solid tiered talent pool.



保持高强度研发投入，截至2025年年底研发经费达15.84亿元，圆满完成涵盖产品创新、设备升级、工艺优化等9项重点研发项目，在超深冲钢性能优化、双相钢工艺改良、高强钢板形精准控制等核心领域实现关键技术突破，累计成功研发投产八十余种深冲钢、高强钢、双相钢、热成型钢等高端钢种，广泛适配汽车、家电、高端建筑等领域。

Maintaining a high level of R&D investment, the company's cumulative R&D expenditure had reached RMB 1.584 billion by the end of 2025. It has successfully completed nine key R&D projects covering product innovation, equipment upgrading, and process optimisation, achieving critical technological breakthroughs in core areas such as performance optimisation of ultra-deep drawing steels, process improvement for dual-phase steels, and precise shape control of high-strength steel strips. To date, more than 80 types of high-end steel grades have been successfully developed and put into production, including deep-drawing steels, high-strength steels, dual-phase steels, and hot-formed steels, which are widely applicable to automotive, home appliance, high-end construction, and other fields.



200人+
专业研发人才

Over 200
Professional R&D Talents



15.84亿元
研发经费投入

R&D Investment of 1.584
Billion Yuan



2000万+
精密检测设备

Over 20 Million Yuan
Worth of Precision Testing Equipment

为严苛把控产品品质，公司2020年7月成立理化检测中心，斥资2000余万元引进日本、美国、德国等精密检测设备，配备光谱仪、金相显微镜、色差仪、万能试验机、耐腐蚀耐气候试验设备等140余台智能化检测仪器，覆盖原辅料及冷轧、镀锌、彩涂等全系列产品的性能与表面质量检测，以顶尖研发实力、专业技术团队、严苛检测体系，全方位筑牢产品核心竞争力。

To rigorously control product quality,the company established its Physical and Chemical Testing Center in July 2020,investing over RMB 20 million in introducing precision testing equipment from Japan,the United States,Germany,and other countries.Equipped with more than 140 intelligent testing instruments,including spectrometers,metallographic microscopes,colorimeters,universal testing machines,and corrosion and weathering test equipment,the center covers performance and surface quality inspection of raw materials,auxiliary materials,and the full range of products—cold-rolled,galvanized,and color-coated.With top-tier R&D capabilities,a professional technical team,and a stringent testing system,the company comprehensively reinforces the core competitiveness of its products.

绿色智造

Green Manufacturing



先进设备

Advanced equipment

安装行业先进RTO及沸石转轮治污设备，NMHC（非甲烷总烃）治理效率在95%以上，排放均值低于 $25\text{mg}/\text{m}^3$ ，符合A级企业标准。

The plant is equipped with industry leading RTO(Regenerative Thermal Oxidizer)and zeolite rotor concentrator pollution control devices.The removal efficiency for NMHC(non methane hydrocarbons)exceeds 95%,with average emissions below $25\text{ mg}/\text{m}^3$,meeting the standards for Class A enterprises.

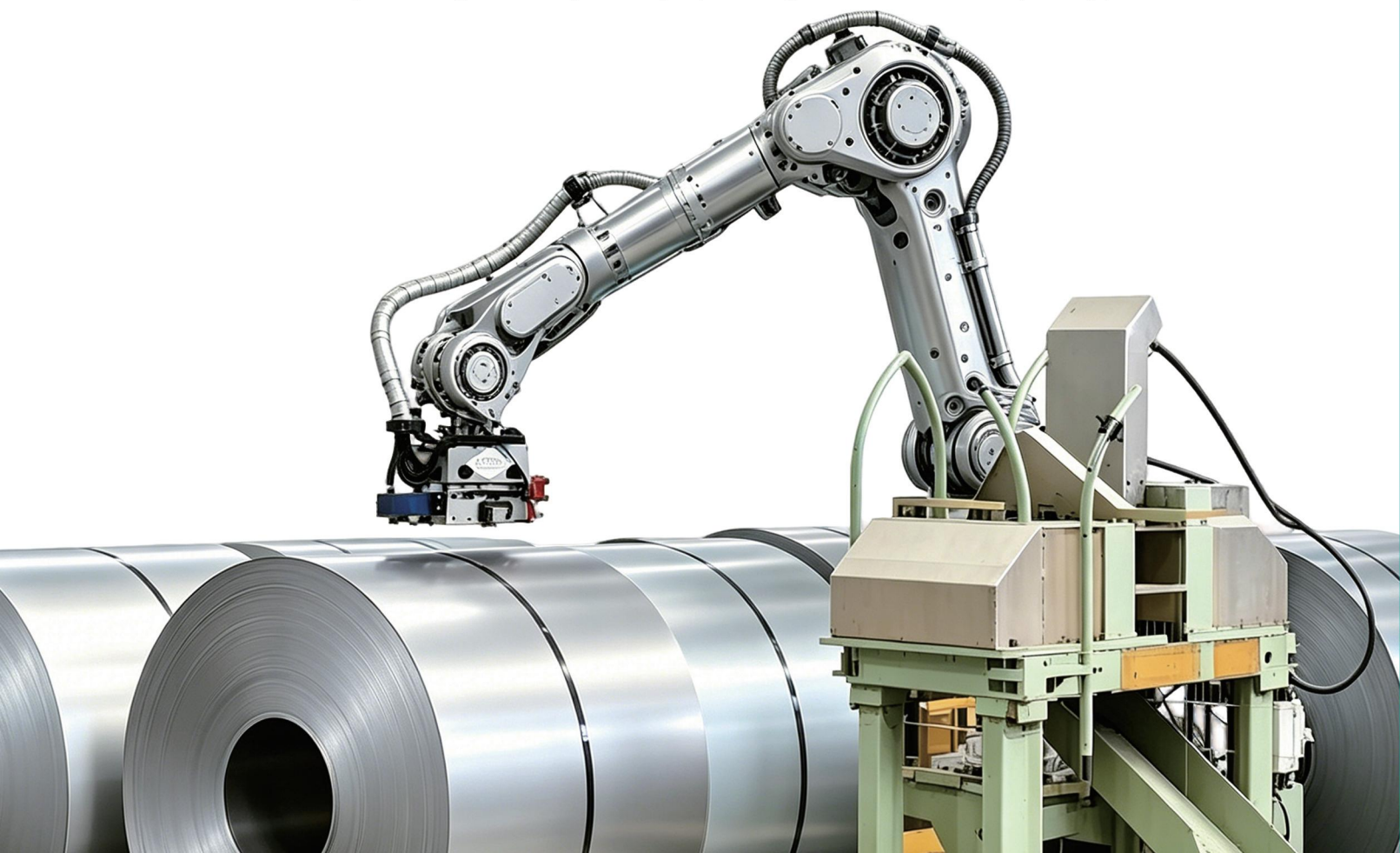


清洁生产

Cleaner production

全产线采取密闭生产，关键涂室区域安装负压系统，确保质量同时保证有机废气有组织处置，切实落实清洁、环保生产。

The entire production line adopts enclosed manufacturing processes, with negative pressure systems installed in key coating booth areas to ensure product quality while guaranteeing organized treatment of organic waste gases, thereby effectively implementing clean and environmentally friendly production.





优质原料

High-quality raw materials

选取阿克苏、立邦、PPG、KCC国际知名油漆品牌，生产全生命周期遵循绿色、环保，前处理采用无铬钝化，全过程限制铅、汞、镉等有害物质使用，切实保证卫生安全。

The company selects internationally renowned paint brands such as AkzoNobel, Nippon Paint, PPG, and KCC. The entire production lifecycle adheres to green and environmentally friendly principles. The pre-treatment process adopts chromium free passivation, and the use of hazardous substances such as lead, mercury, and cadmium is restricted throughout the whole process, effectively ensuring hygiene and safety.



碳足迹管理平台

Carbon Footprint Management Platform

紧扣产品全生命周期碳管理原则，搭建碳足迹核算、CBAM 核算模块，对接客户绿色供应链管理要求，深度整合现有信息系统，可完成产品全生命周期碳足迹核算、LCA 评价、EPD 辅助认证、CBAM 合规报送及供应链碳数据追溯，推动集团绿色低碳发展，有效化解低碳贸易风险。

Closely aligned with the principle of product lifecycle carbon management, the platform has established modules for carbon footprint accounting and CBAM (Carbon Border Adjustment Mechanism) accounting. It interfaces with customers' green supply chain management requirements and deeply integrates existing information systems. The platform can perform full lifecycle carbon footprint accounting, LCA (Life Cycle Assessment) evaluations, EPD (Environmental Product Declaration) auxiliary certification, CBAM compliance reporting, and carbon data traceability along the supply chain. This drives the Group's green and low carbon development while effectively mitigating low carbon trade risks.



聚力推进废钢电炉一体化建设，推动绿色低碳发展提质升级

Focus on advancing the integrated construction of scrap steel and electric furnaces to elevate green and low-carbon development.

15

敬业集团
JINGYE GROUP



服务承诺 客户至上

Service Commitment · Customer First

服务客户五大承诺

Five Major Commitments to Customer Service

100%

五个
100%

Five 100% Guarantees



交货数量100%，交货时间100%，产品质量100%
开票100%，退款100%
100% Delivery Quantity, 100% Delivery On Time, 100% Product Quality,
100% Invoicing, 100% Refund



质量
无忧

Worry-Free Quality



质量不满意任何时候允许退款
Refund allowed at any time if dissatisfied with product quality



全周期
服务

Full-cycle Service



服务产品生命全周期，环环周到，提供超值服务
Serve the entire life cycle of products with thoughtful procedures at every link
and deliver premium value-added services



个性化
定制

Personalized Customization



提供个性化定制服务，满足客户需求
Provide personalized customized services to meet customer demands



高标准
保障

High-Standard Protection



客户的认可、客户的满意是产品唯一标准
以高于行业的执行标准保障客户权益
Customer recognition and satisfaction are the sole criteria for products, and
customer rights and interests are guaranteed by implementation standards
higher than the industry norms.

质量理念 Quality Philosophy



EVI前置技术服务 EVI (Early Vendor Involvement) upfront technical services

深度参与客户研发选材与工艺优化，支持性能、涂层、规格等多维度定制，一站式衔接试样开发至批量量产。

We are deeply involved in customers' R&D material selection and process optimisation, supporting multi dimensional customisation in terms of performance, coating, specifications, and more, while seamlessly connecting trial development to mass production in a one stop service.

双线守候/Dual-Line Service:

设立双线服务，7×24h全天候。

We provide two service channels, available 7×24 hours a day.

总经理热线/General Manager Hotline:

15830136999

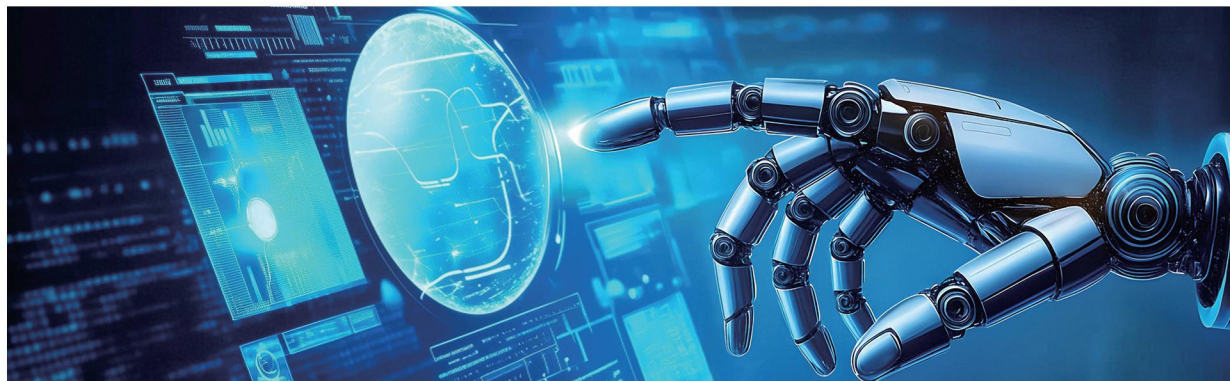
客服热线/Customer Service Hotline:

0311-966666

极速触达/Rapid Response:

两小时内回复，24h内抵达现场。

We reply within two hours and arrive on-site within 24 hours.



全域联运拓流

Integrated intermodal transport for global flow

搭建多式联运立体化全域物流体系，全面贯通国内配送与全球出口通道。

We have established a three dimensional, comprehensive logistics system featuring multimodal transportation, fully connecting domestic distribution channels with global export routes.

● 全球办事处
Global Offices



产品矩阵篇

筑山河·琢瑶庭·赋灵泽·绘灵纹

Product Portfolio

Shaping Landscapes, Refining Elegance, Bestowing Essence, Weaving Patterns



山海藏万象，精工焕新颜。取材《山海经》九州山河灵韵，融现代涂层精工科技，“敬业澜”系列，以钢为骨、以技为韵，打造建筑、家电、功能特种、表面效果四大核心产品矩阵，打造“筑山河·琢瑶庭·赋灵泽·绘灵纹”一境一品、适配全工况，以长效品质装点当代山河，赋基建、家居、工业全新风貌。命名内核：萃取上古山海地貌、灵泽、神物意象，以诗意国风赋能工业精工，山海定境，科技赋能，精工筑品。

Mountains and seas embrace all wonders; precision engineering renews every face. Drawing inspiration from the mythical landscapes of the Classic of Mountains and Seas and the soul of China's nine ancient regions, infused with modern coating technologies, the "Jingye Luster" series – steel-framed and tech-infused – builds a four-pillar product matrix: Architectural, Home Appliance, Functional Specialty, and Surface-Effect solutions. Each pillar embodies a unique spirit – Shaping Landscapes, Refining Elegance, Bestowing Essence, Weaving Patterns – one scenario, one tailored solution, covering all service conditions. With enduring quality, we adorn today's built environment, bringing fresh vitality to infrastructure, homes, and industry.

Behind the naming: Rooted in ancient mountain-sea landforms, sacred waters, and mythical creatures, we empower industrial precision with poetic Chinese aesthetics – where the spirit of the land meets technological innovation, crafting excellence in every product.

筑山河·建筑彩涂板

Shaping Landscapes – Architectural color coated steel

专为各类户外土建围护打造，承山海之固，以优异的耐候性与结构强度，构建建筑的坚实筋骨，守护人居空间的安稳与长久。

Engineered specifically for outdoor building envelopes, these sheets embody the strength of mountains and seas. With outstanding weatherability and structural integrity, they forge the solid framework of architecture – safeguarding the stability and longevity of living and working spaces.

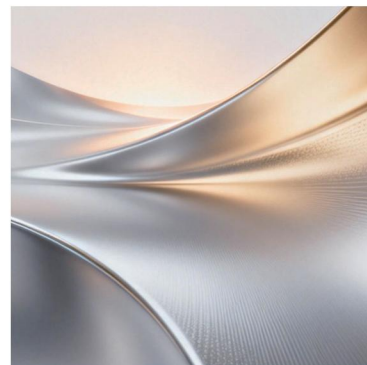


琢瑶庭·家电专用彩涂板

Jade-grade color coated steel for Enhanced Home Living

琢玉琢器，赋能家居。专注家电精密深加工，以细腻的表面质感与色彩表现力，赋能高端家电制造，将山川灵秀融入生活器物，提升家居美学的温润触感。

Our core business lies in precision deep processing of home appliance components. Leveraging ultra-fine surface finishing and superior color reproduction performance, we provide manufacturing enablement for high-end home appliance products. We embed the delicate charm of natural landscapes into daily household articles, endowing domestic living spaces with mellow, pleasant tactile aesthetics.

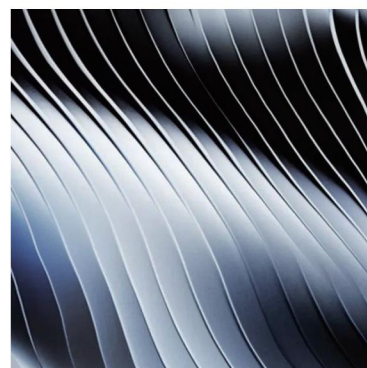


赋灵泽·特种功能彩涂板

Bestowing Essence – Functional Specialty color coated steel

以自然灵智赋能特种工业，研发适配极端工况功能板材。融自洁除尘、广谱抗菌、静电疏导等核心涂层科技，集防腐耐候、洁净抑菌、绝缘防爆等多重性能于一体，为前沿工业领域提供定制化材料解决方案。

Inspired by natural wisdom, we develop high-performance functional panels tailored for extreme operating conditions. Incorporating core coating technologies including self-cleaning, broad-spectrum antibacterial and electrostatic dissipation, the panels integrate corrosion resistance, weather resistance, antibacterial performance, electrical insulation and explosion-proof capabilities. We thus deliver customized material solutions for cutting-edge industrial sectors.

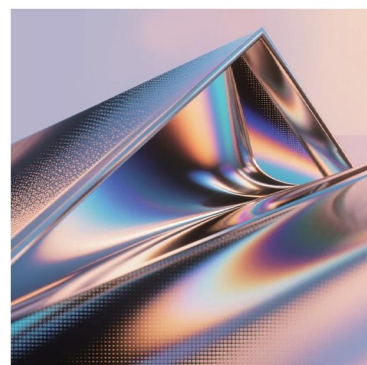


绘灵纹·表面效果

Weaving Patterns – Surface Effect Color Coated Steel

以精工巧艺雕琢立面美学，打造风格多元的饰面板材。融合网纹、绒面、印花、随角异色等特色工艺，集丰富肌理、温润光泽、细腻触感、灵动视觉于一体，为各类场景打造高颜值质感饰面方案。

Exquisite craftsmanship refines facade aesthetics to produce decorative panels with diversified styles. Adopting premium processes including embossed mesh textures, suede finishes, printing and goniochromatic color effects, our panels feature abundant surface texture, soft luster, fine tactile sensation and dynamic visual effects, providing premium aesthetic finishing solutions for various application scenarios.





筑山河 建筑彩涂板

Shaping Landscapes
Architectural Color Coated Steel

1. PE聚酯涂层彩涂板 | 质保15年

PE (Polyester) Color Coated Steel | 15 Year Warranty

● 适配多元场景

Versatile Applications

PE聚酯涂层彩涂板兼具防腐耐候、施工便捷，综合成本优异等优势，是民用建筑、厂房、库房等高性价比之选。

Featuring reliable corrosion and weather resistance, convenient installation and superior overall cost-effectiveness, PE color coated steel serve as highly cost-effective options for civil buildings, factory workshops, warehouses and other facilities.



● 产品特点

Key Features

色彩丰盈斑斓
板面平整细腻



Rich, vibrant colours with a smooth, refined surface

低VOC净环保
性能国标优等



Low VOC, eco friendly, and exceeding national performance standards

加工简便易造
用材质高价优



Easy to fabricate, delivering superior quality at competitive value
Product Specifications

产品参数

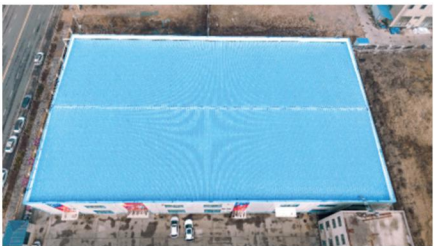
Product Specifications

镀铝锌锌层≥AZ60g/m²，正面涂层 5+15μm。

Aluminum-zinc substrate coating weight ≥ AZ60 g/m²; top coating thickness 5+15 μm.



某工程5年厂房现状
出现油漆粉化脱落、基板裸露生锈



VS 敬业彩涂板5年厂房现状
漆膜完整、无褪色、粉化

优势

Key Advantages

基板优质：选用敬业自产55%铝镀铝锌基板，防腐寿命为常规镀锌板2-5倍，性能稳定可靠。

面漆耐候：使用阿克苏、PPG、立邦、KCC等国际知名品牌卷材涂料，涂层耐候性优异。

颜色斑斓：色彩鲜亮多样，适配各类建筑设计。

Premium Substrate: Made from Jingye's self-produced 55% aluminum zinc coated steel, offering 2 to 5 times the corrosion resistance of conventional galvanized sheets – stable and reliable performance.

Weather Resistant Topcoat: Utilises internationally renowned coil coatings from AkzoNobel, PPG, Nippon Paint, and KCC, delivering outstanding weatherability.

Vibrant Colour Palette: Bright, diverse colours available to complement any architectural design styles.

PE（聚酯）性能汇总 PE (Polyester) Performance Summary			
检测项目 Test Item	执行标准/说明 Execution Standard /Description	技术要求 Technical Requirement	备注 Remarks
粘度（T4杯，25±1℃） Viscosity (T4 cup, 25±1℃)	GBT1723	90~140s	上机施工粘度 On-machine application viscosity
烘烤温度（PMT） Baking Temperature (PMT)	炉温控制 Oven temperature control	224~241℃	板温峰值 Peak metal temperature
细度 Fineness	GBT1724	≤25 μm	素色漆标准 Standard for solid color paint
重量固体分 Weight Solid Content	素色漆标准 Standard for solid color paint	≥55%	批次波动≤5% Batch-to-batch variation ≤5%
铅笔硬度（面漆） Pencil Hardness (Topcoat)	中华505专用铅笔，无划伤 Zhonghua 505 special pencil, no scratching	≥F	常温检测 Tested at room temperature
色差（ΔE*） Color Difference (ΔE*)	HunterLab ΔE*	浅色≤0.5；深色≤0.8 Light color ≤0.5; Dark color ≤0.8	与标准样板对比 Compared with standard reference panel
光泽度（60°） Gloss (60°)	相对样板偏差 Deviation relative to standard panel	±10	与标准样板对比 Compared with standard reference panel
T弯（180°弯折） T-bend (180° bending test)	常温弯折测试 Ambient temperature bending test	≤3T	无开裂、脱落 No cracking or peeling
MEK耐溶剂 MEK Solvent Resistance	脱脂棉来回擦拭 Rub back and forth with degreasing cotton	≥100 次	无露底、变色 No substrate exposure or discoloration
反向冲击 Reverse Impact	冲击试验 Impact test	≥9J	无开裂、脱落 No cracking or peeling
涂布率（白色系） Spreading Rate (White Color Series)	理论计算值 Theoretical calculated value	350~370m ² kg	干膜 15 μm 参考 Reference for 15 μm dry film thickness
中性盐雾 Neutral Salt Spray Test	平板封边，GBT1766 Sealed edge on flat panel, GBT1766	≥1000h	无起泡、生锈 No blistering or rusting
QUV老化（UVA340） QUV Accelerated Aging (UVA340)	无起泡、开裂，粉化≤1级 No blistering, cracking, chalking grade ≤1	≥1000h	加速老化测试 Accelerated aging test

2.SMP硅改性聚酯涂层彩涂板 | 质保30年

SMP (Silicone-Modified Polyester) Color Coated Steel | 30 Year Warranty

● 适配多元场景

Versatile Applications

SMP硅改性聚酯涂层彩涂板专为戈壁荒漠等强风沙、强紫外、温差大的极端露天场景设计，是光伏支架、户外基建的理想优选。

Engineered for extreme open air environments – such as deserts and Gobi regions with intense windblown sand, strong UV radiation, and severe temperature fluctuations – SMP color coated steel are the ideal choice for photovoltaic brackets, outdoor infrastructure, and more.

● 产品特点

Key Features

耐候抗晒保色
板面历久如新



Superior weather resistance and colour retention for lasting freshness

固层抗击耐磨
漆膜稳固不脱



Robust curing layer with excellent impact and abrasion resistance – no peeling

厚锌基材防腐
长效质保经年



Thick zinc coating for enhanced corrosion protection and extended service life

● 优势

Key Advantages

优异耐候：卓越的SMP涂覆系统，含35%以上硅单体，提升了耐太阳紫外线照射性能，具有突出的耐候性。

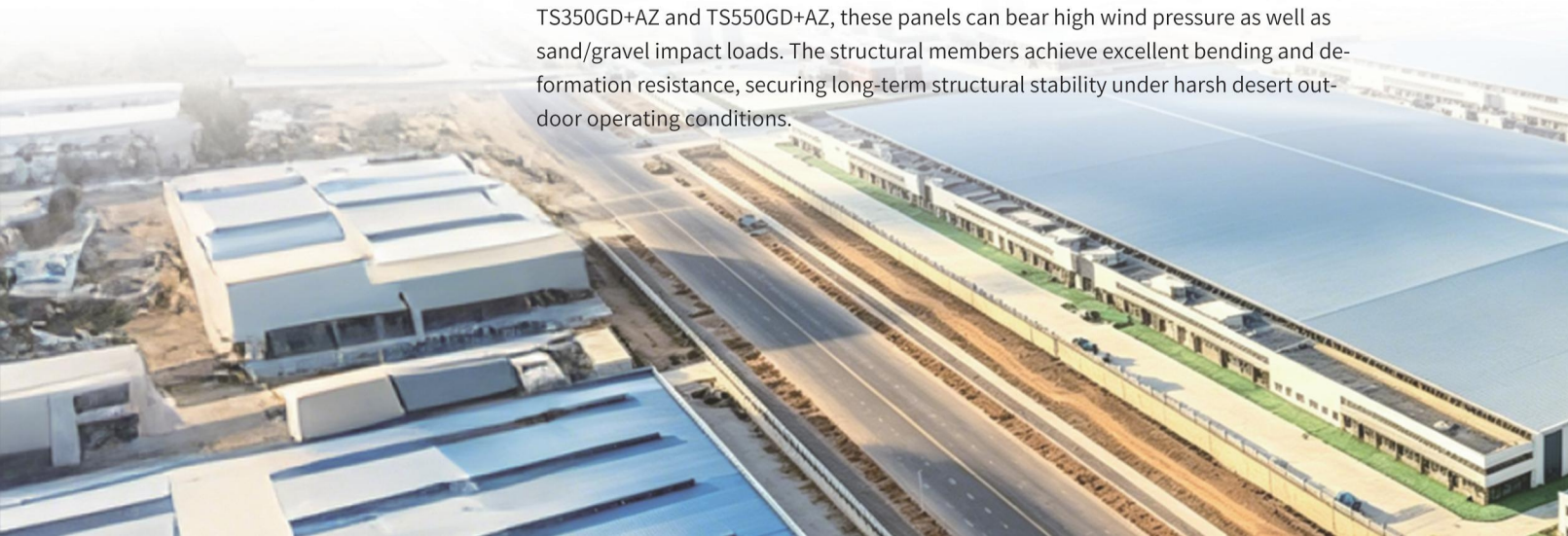
牢固抗刮：涂层硬度在3H，反向冲击10J性能下，可保持持久无划痕、不掉漆。用阿克苏、PPG、立邦、KCC等国际知名品牌卷材涂料，涂层耐候性优异。

高强抗压：采用敬业TS350GD+AZ、TS550GD+AZ高强基板，可承载高风压与砂石冲击荷载，实现构件抗弯抗形变，保障荒漠露天工况结构长期稳定。

Exceptional Weatherability: The advanced SMP coating system contains over 35% silicone monomers, which greatly improves resistance to solar UV radiation and delivers outstanding long-term outdoor weathering performance. We adopt coil coatings from globally renowned suppliers including AkzoNobel, PPG, Nippon Paint and KCC to guarantee premium coating weather resistance.

High Scratch and Impact Resistance: With 3H coating hardness and 10J reverse impact resistance, the coating maintains permanent scratch-free status without coating peeling.

High Strength Load-bearing Performance: Utilizing Jingye high-strength substrates TS350GD+AZ and TS550GD+AZ, these panels can bear high wind pressure as well as sand/gravel impact loads. The structural members achieve excellent bending and deformation resistance, securing long-term structural stability under harsh desert outdoor operating conditions.



● 产品参数

Product Specifications

镀铝锌锌层≥AZ100g/㎡，正面涂层5+18μm。
Aluminum zinc coating ≥ AZ100 g/m²; top coating thickness 5+18 μm.

面漆颜色 Topcoat Colors	耐溶剂擦拭 Solvent Rub Resistance		涂层厚度(μm) Coating Thickness (μm)		T弯 T-Bend		反向冲击 Reverse Impact Test		光泽度 Gloss		铅笔硬度 Pencil Hardness Test	
	正面 Front Side	反面 Back Side	正面 Front Side	反面 Back Side	正面 Front Side	反面 Back Side	正面 Front Side	反面 Back Side	正面 Front Side	反面 Back Side	正面 Front Side	反面 Back Side
SMP9002	>100	> 80	23.22	8.61	1T	3T	10J	10J	39.8	33.2	3H	3H

*SMP硅改性聚酯彩涂板正反面反向冲击实测均达10J，冲击性能显著优于普通聚酯涂料。

SMP（硅改性聚酯）性能汇总 SMP (Silicone-Modified Polyester) Performance Summary			
检测项目 Test Item	执行标准/说明 Executive Standard/Description	技术要求 Technical Requirements	备注 Remarks
粘度 (T4杯, 25±1℃) Viscosity (T-4 Cup, 25±1℃)	GB/T1723	90~140s	上机施工粘度 Construction viscosity on machine
烘烤温度 (PMT) Baking Temperature (PMT)	炉温控制 Furnace Temperature Control	224~241℃	板温峰值 Peak metal temperature
细度 Fineness	GB/T1724	≤25μm	素色漆标准 Solid Color Paint Specification
重量固体分 Weight Solids	素色漆标准 Standard for Plain Color Paint	≥55%	批次波动≤5% Batch variation shall not exceed 5%
铅笔硬度 (面漆) Pencil Hardness (Topcoat)	中华505专用铅笔, 无划破 Zhonghua 505 Special Pencil, No Scratch	≥H	常温检测 Tested under ambient temperature
色差 (ΔE*) Colour Difference (ΔE*)	HunterLab ΔE*	浅色≤0.5; 深色≤0.8 Light Color ≤0.5; Dark Color ≤0.8	与标准样板对比 Comparison against standard reference panel
光泽度 (60°) Gloss (60°)	相对样板偏差 Deviation Relative to standard reference panel	±10	与标准样板对比 Comparison against standard reference panel
T弯 (180°弯折) TBend (180° Bend)	常温弯折测试 Ambient temperature T-bend test (180°)	≤3T	无开裂、脱落 No Cracking or Falling Off
MEK耐溶剂 MEK Rub Resistance	脱脂棉来回擦拭 Reciprocating rub test using lint-free cotton wipes	≥100次	无露底、变色 No Substrate Exposure or Discoloration
反向冲击 Reverse Impact	冲击试验 Impact test	≥9J	无开裂、脱落 No Cracking or Falling Off
涂布率 (白色系) Spreading Rate (White Series)	理论计算值 Theoretical calculation	350~370m²/kg	干膜18μm参考 Reference for 18μm Dry Film
中性盐雾 Neutral Salt Spray	平板封边, GB/T1766 Edge-sealed test panels, evaluated per GB/T1766	≥1500h	无起泡、生锈 No blistering or rusting
QUV老化 (UVA340) QUV Accelerated Weathering (UVA-340)	无起泡、开裂, 粉化≤1级 No blistering or cracking, chalking ≤ level 1	≥1500h	加速老化测试 Accelerated aging test



3.HDP高耐候彩涂板 | 质保35年

HDP (High Durability Polyester) Color Coated Steel | 35 Year Warranty



● 适配多元场景

Versatile Applications

HDP聚酯涂层彩涂板，适配沿海区域、重工业厂区等中高腐蚀环境，是目前高端建筑外墙、大型钢结构屋面的主流选用材料。

Designed for medium to high corrosion environments – including coastal regions and heavy industrial zones – HDP color coated steel are the leading choice for high end building facades and large scale steel structures.

● 产品特点

Key Features

高分子量树脂
键牢抗解耐久



High molecular weight resin ensures strong bonds and long term durability

抗紫外恒色泽
耐老化防粉化



UV-stabilized to retain consistent color, anti-aging and anti-chalking performance

漆膜粘结稳固
多彩高性价比



Reliable coating adhesion, rich color options and excellent cost-effectiveness

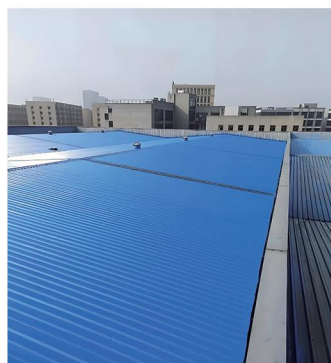
● 优势

Key Advantages

超强耐候（抗紫外线）：树脂含环己烷结构，支链少、键能稳定，不易被紫外线打断；搭配受阻胺光稳定剂（HALS），抗UV能力远强于普通PE；QUV老化1500小时，光泽保留率 $\geq 70\%$ 。

高耐蚀、抗盐雾：双面涂层（2/2结构），膜厚 $\geq 40\mu\text{m}$ ，附着力强、致密性好；中性盐雾 ≥ 1500 小时。

加工性优良：涂层柔韧性好，兼顾高硬度（约3H）和良好加工性，不易开裂、掉漆，既抗划伤，也能满足折弯、辊压等成型要求。



Superior Weatherability (UV Resistance): The resin incorporates a cyclohexane structure with fewer side chains and stable bond energy – resistant to UV degradation. Enhanced with HALS (Hindered Amine Light Stabilisers), its UV resistance far surpasses conventional PE. QUV accelerated aging test at 1,500 hours demonstrates gloss retention of $\geq 70\%$.

Excellent Corrosion & Salt Spray Resistance: Two sided coating (2/2 structure) with film thickness $\geq 40\mu\text{m}$ delivers strong adhesion and a dense barrier. Neutral salt spray test reaches $\geq 1,500$ hours.

Outstanding Formability: Coating flexibility is balanced with high hardness (approx. 3H) and excellent processability – resistant to cracking and peeling, while meeting demanding bending, roll forming, and other fabrication requirements.

产品参数

Product Specifications

镀铝锌锌层 $\geq$ AZ100g/㎡，正面涂层 5+18 μ m。

Aluminum zinc coating $\geq$ AZ100 g/m²; top coating thickness 5+18 μ m.

涂层种类 Coating Type	面漆颜色 Topcoat Colour	钢卷厚度/mm Coil Thickness (mm)	180°T弯 180° TBend
高耐候面漆 HighDurability Topcoat	莹白 Bright White	0.4	1
	9002	0.6	2
	浅灰色-RJ Light GreyRJ	0.7	2
	海蓝 Ocean Blue	0.5	2

*不同厚度高耐候涂层 T 弯性能检测记录



*高耐候涂层180°1T弯曲后涂层不脱落

*The high durability topcoat remains intact with no detachment after 180° 1T bending, demonstrating excellent formability and coating adhesion.

试验标准：依据 GB/T13448-2019，0.4~0.7mm高耐候彩涂板180°T弯测试：0.4mm达1T，其余均 $\leq$ 2T，涂层无脱落，成型性能优异。

Test Standard: GB/T13448-2019

Test Scope: 180° T bend test on high durability color coated sheets from 0.4 to 0.7 mm thick.

Results: At 0.4 mm, the coating achieves 1T; all other thicknesses achieve $\leq$ 2T. No coating detachment is observed, confirming excellent formability and reliable bending performance.

HDP（高耐候聚酯）性能汇总 HDP (HighDurability Polyester) Performance Summary			
检测项目 Test Item	执行标准/说明 Executive Standard/Description	技术要求 Technical Requirements	备注 Remarks
粘度（T4杯，25 $\pm$ 1℃） Viscosity (T4 cup, 25 $\pm$ 1℃)	GB/T1723	90~140s	上机施工粘度，异常可免费补加稀释剂 Construction viscosity on machine, free thinner can be added if abnormal
烘烤温度（PMT） Baking Temperature (PMT)	炉温控制 Furnace Temperature Control	224~241℃	板温峰值 Peak Plate Temperature
细度 Fineness	GB/T1724	$\leq$ 25 μ m	素色漆标准 Solid Color Paint Specification
重量固体分 Mass Solid Content	素色漆标准 Solid colour standard	$\geq$ 55%	批次波动 $\leq$ 5%，超范围返厂重调 Batch variation shall not exceed 5%. Material shall be sent back to factory for re-blending once out of tolerance
铅笔硬度（面漆） Pencil Hardness (Topcoat)	中华505专用铅笔，无划破 Zhonghua 505 Special Pencil, No Scratch	$\geq$ H	常温检测 Tested under ambient temperature
色差（ ΔE^* ） Color Difference (ΔE^*)	HunterLab ΔE^*	浅色 $\leq$ 0.5；深色 $\leq$ 0.8 Light colours $\leq$ 0.5; Dark colours $\leq$ 0.8	与标准样板对比 Comparison against standard reference panel
光泽度（60°） Gloss (60°)	相对样板偏差 Deviation Relative to standard reference panel	$\pm$ 10	与标准样板对比 Comparison against standard reference panel
T弯（180°弯折） T-bend (180°)	常温弯折测试 Ambient temperature T-bend test (180°)	$\leq$ 3T	无开裂、脱落 No Cracking or Falling Off
MEK耐溶剂 MEK Rub Resistance	脱脂棉来回擦拭 Reciprocating rub test using lint-free cotton wipes	$\geq$ 100次	无露底、变色 No Substrate Exposure or Discoloration
反向冲击 Reverse Impact	冲击试验 Impact Test	$\geq$ 9J	无开裂、脱落 No Cracking or Falling Off
涂布率（白色系） Spreading Rate (White Series)	理论计算值 Theoretical Calculation Value	350~370m ² /kg	干膜18 μ m参考 Reference for 18 μ m Dry Film
中性盐雾 Neutral Salt Spray	平板封边，GB/T1766 Edge-sealed test panels, evaluated per GB/T1766	$\geq$ 1500h	无起泡、生锈，型式试验项 No blistering or rusting, type test item
QUV老化（UVA340） QUV Accelerated Weathering (UVA-340)	无起泡、开裂，粉化 $\leq$ 1级 No blistering or cracking, chalking $\leq$ level 1	$\geq$ 1500h	加速老化测试，型式试验项 Accelerated aging test, included type approval testing

4. PVDF氟碳涂层彩涂板 | 质保45年

PVDF (Fluorocarbon) Color Coated Steel | 45 Year Warranty



● 适配多元场景

Versatile Applications

PVDF氟碳涂层彩涂板，主要用于沿海重盐雾地带、化工园区、电厂、交通枢纽等对使用寿命和耐腐蚀性要求极高的重点工程项目。

Engineered for color coated steel in high salt spray coastal zones, chemical industrial parks, power plants, and transportation hubs – where extended service life and superior corrosion resistance are paramount.

● 产品特点

Key Features

锌层厚料防腐
氟碳面层耐候



Thick zinc coating for robust anti corrosion protection; PVDF topcoat for extreme weatherability

厚膜锁色抗晒
经年不易褪变



Heavy film colour locking resists UV degradation – minimal fading over decades

露天恒久耐用
质保四五流年



Proven durability in open air environments, backed by a 45 year warranty

● 产品参数

Product Specifications

镀铝锌锌层 $\geq$ AZ150g/㎡，正面涂层不低于25μm。

Aluminum zinc coating $\geq$ AZ150 g/m²; top coating thickness $\geq$ 25 μm.

● 优势

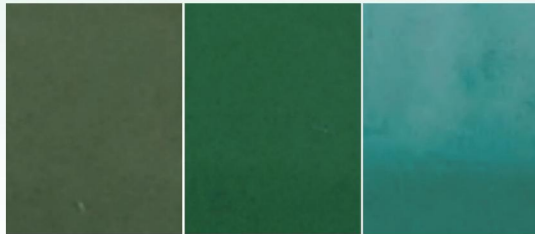
Key Advantages

氟碳涂层耐候抗腐：采用PVDF专用涂层，氟碳树脂含量大于等于70%，精选无机陶瓷颜料，极致耐候性、超强紫外线抵抗能力、耐化学腐蚀，寿命长。

工艺优势：选用高锌层基板，搭配两涂两烘成熟工艺，打造超高漆膜厚度；辅以表层清漆强化防护，板材兼具抗刮、耐蚀、保色更持久，户外使用耐久性能显著升级。

Superior Weatherability & Corrosion Resistance: The PVDF specific coating contains $\geq$ 70% fluorocarbon resin, combined with selected inorganic ceramic pigments, delivering ultimate weather resistance, exceptional UV protection, and outstanding chemical resistance – ensuring an exceptionally long service life.

Process Advantages: High zinc coating substrates, coupled with mature two coat two bake processes, achieve superior film thickness. A clear topcoat is applied for added protection, enhancing scratch resistance, corrosion resistance, and colour retention – significantly upgrading durability for outdoor applications.



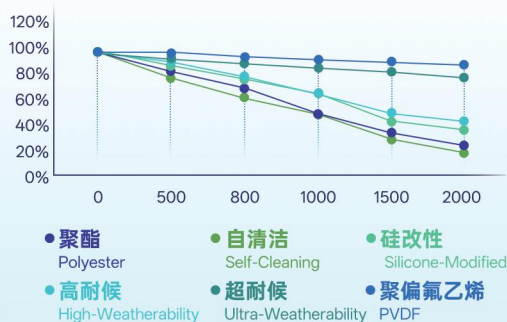
*三组氟碳涂层板户外曝晒试验对比

自左而右依次为陶瓷颜料、陶瓷颜料、有机颜料，结果显示，使用陶瓷颜料的涂层板明显比使用有机颜料的涂层板更加抗褪色。

Outdoor exposure test – three PVDF-coated panels (colour charts to be extracted). Ceramic pigments (the two on the left) vs. organic pigment (the one on the far right). Ceramic pigments show markedly better colour retention.

彩涂板耐老化实验过程及结果 (Q.U.V-A测试)

Aging Resistance Test Process and Results of Color Coated Sheets



QUVA属长波紫外输出，用于评价涂层抗老化性能。

QUVA (UVA light source in QUV test) – long wave UV radiation to assess coating weatherability.

实验表明:彩涂板的光泽、色差、保光率、粉化等性能，均优于普通PE彩涂板。

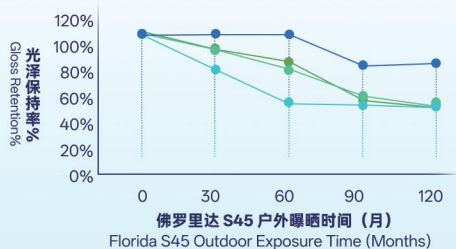
Tests confirm that these sheets outperform conventional PE color coated steel in gloss, colour difference, gloss retention, and chalking resistance.

*不同氟碳含量对比对光泽度保持的影响

*Effect of fluorocarbon content ratio on gloss retention.

PVDF / 丙烯酸配比的影响 — 白色半光涂层

Effect of PVDF/Acrylic Ratio — White Semi-Gloss Coating



南佛罗里达户外曝晒下，不同KYNAR500®PVDF/丙烯酸配比的白色KYNAR 500®涂层光泽保持率对比

Comparison of gloss retention of white KYNAR 500® coatings with different KYNAR 500® PVDF /acrylic ratios under outdoor exposure in South Florida



• 100% PVDF 成本非常高，而且无法固化形成漆膜。

100% PVDF is prohibitively expensive and cannot cure into a complete paint film.

• 当 PVDF 占涂料树脂含量在 70% 时，涂料的各项性能特别是耐候性及耐久性，均能达到较高的要求。

When PVDF accounts for 70% of total resin content in coating formulations, the coating achieves satisfactory performance across all indicators, especially weatherability and durability, to meet rigorous application.

• 70% PVDF+30% 丙烯酸的组合在保证性能的前提下，也降低了涂料成本。

The 70% PVDF + 30% acrylic formulation reduces coating costs while maintaining excellent coating performance.

• 50% PVDF 虽然成本较低，但是和 70% PVDF 相比，耐候性能相差巨大，不推荐在项目里使用。

Though 50% PVDF features lower material cost, its weather resistance is far inferior to that of 70% PVDF, so it is not recommended for engineering projects.

涂料种类 Coating Type	面漆颜色 Topcoat Colour	实验时长 Test Duration (h)	起泡等级 Blistering Rating	生锈等级 Rusting Rating
聚酯面漆 Polyester (PE)	PE白色JCPE White JC	1000	0 (S0)	0 (S0)
硅改性面漆 SiliconeModified Polyester (SMP)	SMP9002	1500	0 (S0)	0 (S0)
高耐候面漆 HighDurability Polyester (HDP)	HDP浅灰299HDP Light Grey 299	1500	0 (S0)	0 (S0)
氟碳面漆 Fluorocarbon (PVDF)	PVDF银灰 JY006PVDF Silver Grey JY006	2000	0 (S0)	0 (S0)

*通过盐雾实验对比，PVDF耐腐蚀性能更优。
*Salt spray tests confirm that PVDF delivers superior corrosion resistance.

不同涂层QUVA对照表 Comparative QUV A test results for different coating systems.										
面漆种类 Coating Type	实验时长 Test Duration	起泡等级≤1 (S1) Blistering Rating (≤1, S1)	开裂等级≤1 (S1) Cracking Rating (≤1, S1)	粉化等级≤1 Chalking Rating (≤1)	失光等级 Gloss Loss Rating	老化前后色差对比 Color Difference				变色等级 Colour Change Rating
						ΔL	Δa	Δb	ΔE	
白银灰(HDP) Silver Grey (HDP)	2000h	0(S0)	0(S0)	1	2	2.22	-0.28	-1.03	2.46	2
SMP9002	2000h	0(S0)	0(S0)	0	1	0.13	-0.05	-0.17	0.74	0
猫眼灰(PE) Cat's Eye Grey (PE)	1800h	0(S0)	0(S0)	0	2	0.66	0.71	-4	4.12	2
JY088PVDF白银灰 JY088 PVDF Silver Grey	3000h	0(S0)	0(S0)	0	0	5.2	-2.24	0.74	5.71	2

*PVDF氟碳涂料在3000h超长紫外老化下无起泡开裂、零粉化、零失光，长效耐老化耐久优势显著，是四种涂层中长期户外耐候性能最优的面漆体系。
*After 3,000 hours of extended UV aging, PVDF fluorocarbon coatings show no blistering, no cracking, zero chalking, and zero gloss loss – delivering exceptional long term durability and weather resistance. Among the four coating systems, PVDF is unequivocally the topcoat with the best long term outdoor weatherability.



PVDF（氟碳）性能汇总			
PVDF (Fluorocarbon) Performance Summary			
检测项目 Test Item	执行标准/说明 Executive Standard/Description	技术要求 Technical Requirements	备注 Remarks
粘度（T4杯，25±1℃） Viscosity (T4 cup, 25±1℃)	GB/T1723	100~160s	上机施工粘度 Construction viscosity on machine
烘烤温度（PMT） Baking Temperature (PMT)	炉温控制 Furnace Temperature Control	241~254℃	板温峰值,高于聚酯体系 Peak Plate Temperature,higher than polyester systems
细度 Fineness	GB/T1724	≤25μm	素色漆标准 Solid Color Paint Specification
重量固体分 Mass Solid Content	素色漆标准 Standard for Plain Color Paint	≥45%	清漆除外，批次波动≤5% Clear coats excluded, Batch variation shall not exceed 5%
铅笔硬度（面漆） Pencil Hardness (Topcoat)	中华505专用铅笔，无划破 Zhonghua 505 Special Pencil, No Scratch	≥HB	常温检测 Tested under ambient temperature
色差（ΔE*） Color Difference (ΔE*)	HunterLab ΔE*	金属色≤1.0 Metal Color Tolerance ≤1.0	与标准样板对比 Comparison against standard reference panel
光泽度（60°） Gloss (60°)	相对样板偏差 Deviation Relative to standard reference panel	±10	与标准样板对比 Comparison against standard reference panel
T弯（180°弯折） T-bend (180°)	常温弯折测试 Ambient temperature T-bend test (180°)	≤3T	无开裂、脱落 No Cracking or Falling Off
MEK耐溶剂 MEK Rub Resistance	脱脂棉来回擦拭 Reciprocating rub test using lint-free cotton wipes	≥100次	无露底、变色 No Substrate Exposure or Discoloration
反向冲击 Reverse Impact	冲击试验 Impact Test	≥9J	无开裂、脱落 No Cracking or Falling Off
涂布率（白色系） Spreading Rate (White Series)	理论计算值 Theoretical Calculation Value	390~410m²/kg	干膜20μm参考 Reference for 20μm Dry Film
中性盐雾 Neutral Salt Spray	平板封边，GB/T1766 Edge-sealed test panels, evaluated per GB/T1766	≥2000h	无起泡、生锈，重腐蚀环境表现优异 No blistering or rusting,excellent performance in severe corrosive environments
QUV老化（UVA340） QUV Accelerated Weathering (UVA-340)	无起泡、开裂，粉化≤1级 No blistering or cracking, chalking ≤ level 1	≥2000h	加速老化测试，抗紫外线能力最优 Accelerated aging test, best UV resistance among all systems



不同涂层中性盐雾试验对照表 Comparative neutral salt spray test results for different coating systems				
涂料种类 Coating Type	面漆颜色 Topcoat Colour	实验时长 Test Duration	起泡等级 Blistering Rating	生锈等级 Rusting Rating
聚脂面漆 Polyester (PE)	白灰(PE) White Grey (PE)	1500h	2 (S2)	0 (S0)
硅改性面漆 SiliconeModified Polyester (SMP)	SMP9002	1600h	0 (S0)	1 (S1)
高耐候面漆 HighDurability Polyester (HDP)	HDP银灰高耐候 HDP Silver Grey	1500h	0 (S0)	1 (S1)
氟碳面漆 Fluorocarbon (PVDF)	JY088PVDF白银灰 JY088 PVDF Silver Grey	2000h	0 (S0)	0 (S0)

*四种涂层中性盐雾试验对比中，PVDF氟碳面漆可承受2000h盐雾且无起泡生锈，防腐性能显著优于1500-1600h便出现起泡或锈蚀缺陷的普通聚酯、硅改性与高耐候三种涂层。

*Among the four coating systems tested, PVDF fluorocarbon topcoat withstands 2,000 hours of salt spray with zero blistering or rusting – demonstrating significantly superior corrosion resistance. In contrast, PE, HDP, and SMP coatings show blistering or rusting defects within 1,500–1,600 hours, confirming PVDF as the premium choice for long term protection in aggressive environments.

四种不同体系涂层中性盐雾划叉试验对比表 Comparative NSS (neutral salt spray) Xcut test results for four different coating systems.				
总干膜厚 (μm) Total Dry Film Thickness (μm)	底漆厚度 (μm) Primer Thickness (μm)	划叉试验 XCut Test		
		实验时长/h Test Duration (h)	气泡最大直径/mm Max. Blister Diameter (mm)	最大蔓延距离/mm Max. Creepage Distance (mm)
聚酯面漆 Polyester (PE)	KT9016(聚酯)	240	0	0
硅改性面漆 SiliconeModified Polyester (SMP)	SMP9002(硅改)	280	0	0
高耐候面漆 HighDurability Polyester (HDP)	HDP浅灰299(高耐候) Light Grey 299	320	0	0
氟碳面漆 Fluorocarbon (PVDF)	银灰JY006(氟碳) Silver Grey JY006	400	0	0

*同等无起泡无扩蚀前提下，PVDF 氟碳面漆耐蚀能力优于聚酯、硅改性、高耐候面漆。

* Under the same conditions – zero blistering and zero creepage – PVDF fluorocarbon topcoat outperforms polyester, silicone modified, and high durability topcoats in corrosion resistance.

热镀铝锌基板 AZ150 无铬钝化处理不同涂层中性盐雾试验对照表 Neutral salt spray test comparison – different PVDF topcoat thicknesses on AZ150 hotdip aluminumzinc substrate with chromiumfree passivation					
总干膜厚 (μm) Total Dry Film Thickness (μm)	底漆厚度 (μm) Primer Thickness (μm)	氟碳面漆厚度 (μm) PVDF Topcoat Thickness (μm)	对应中性盐雾 试验时长 Neutral Salt Spray Test Duration	起泡等级 Blistering Rating	生锈等级 Rusting Rating
20	5	15	600h	2 (S2)	1 (S1)
25	5	20	960h	1 (S1)	0 (S0)
30	5	25	1500h	0 (S0)	0 (S0)
35	5	30	2000h	0 (S0)	0 (S0)
40	5	35	2400h	0 (S0)	0 (S0)
45	5	40	3000h	0 (S0)	0 (S0)

*底漆恒定 5μm 的条件下，氟碳面漆厚度越厚盐雾起泡等级越低、耐蚀时长越长。
*With primer thickness held constant at 5 μm, a thicker PVDF topcoat results in lower blistering ratings and extended corrosion resistance duration.





5. 畜牧专用防腐彩涂板 | 质保20年

Livestock Grade Anti Corrosion Color Coated Steel | 20 Year Warranty

● 适配多元场景

Versatile Applications

解决了普通彩涂板在养殖场寿命短的特点，专为抵抗粪便腐蚀、消毒液侵蚀和高温高湿环境设计，是现代化猪舍、鸡舍、牛羊棚圈、饲料仓储及养殖配套设备的专用板材。

Specifically engineered to overcome the short service life of conventional color coated steel in livestock farms. Designed to resist corrosion from manure, disinfectants, and high temperature, high humidity environments – the premium choice for modern pigsties, poultry houses, cattle and sheep sheds, feed storage facilities, and livestock equipment.

● 产品特点

Key Features

凝露漆面牢靠
低VOC更安全



Anti condensation coating with strong adhesion; low VOC for enhanced safety

耐氨抗脲防腐
浸泡板面完好



Ammonia and urea resistant anti corrosion protection; unaffected even after immersion

耐碱易洁抗污
耐擦洗漆膜稳



Alkali resistant, stain resistant, and easy to clean; Scrub-resistant coating with stable performance

● 关键数据

Key Performance Data

一般以HDP、PVDF耐候涂层为基底，复配耐酸碱、抗菌、抗氨气腐蚀的专用功能助剂，针对性适配养殖环境恶劣工况。板材可耐受 5%、10% 浓度盐酸、氢氧化钠溶液浸泡腐蚀，表面抗菌率可达99%，耐磨循环测试可达5000次以上。

Based on HDP or PVDF weatherable topcoats, enhanced with specialised functional additives for acid/alkali resistance, antibacterial protection, and ammonia corrosion resistance – precisely formulated for harsh livestock environments. The sheets withstand immersion in 5% and 10% hydrochloric acid and sodium hydroxide solutions without degradation. Surface antibacterial efficacy reaches 99%, and abrasion resistance exceeds 5,000 cycles in wear testing.

产品参数

Product Specifications

采用敬业镀铝锌基板，锌层≥AZ150g/㎡，正面涂层5+18μm，防腐耐用质保二十年。

Manufactured on Jingye's aluminum zinc coated substrate with zinc coating ≥ AZ150 g/m²; top coating thickness 5+18 μm. Engineered for corrosion resistance and durability with a 20 year warranty.

优势

Key Advantages

耐酸碱、耐粪便腐蚀：专属畜牧环境定制，抗起泡、抗脱落性能优异，耐受PH2-12,可长期抗尿液、粪便、乳酸、消毒水腐蚀。耐酸碱为普通PE的20倍+，可长期在85%高湿及高温环境下使用。

无毒环保：符合GB18582-2020，无重金属、低VOC、无刺激性气味，动物可直接接触，不影响畜禽生长。

易冲洗、自清洁：漆膜致密光滑，水接触角≥80°，粪便污水一冲即净，清洁效率提升30%+。

Acid & Alkali Resistance / Manure Corrosion Resistance: Tailor made for livestock environments, offering outstanding resistance to blistering and peeling. Withstands pH levels from 2 to 12, providing long term protection against urine, feces, lactic acid, and disinfectants. Acid and alkali resistance is over 20 times that of conventional PE – suitable for prolonged exposure to 85% relative humidity and high temperatures.

Non Toxic & Eco Friendly: Complies with GB18582-2020 standards. Contains no heavy metals, low VOC, and no irritating odours. Safe for direct animal contact, with no adverse effects on livestock or poultry growth.

Easy Cleaning & Self Cleaning: The dense, smooth coating features a water contact angle of ≥80°, allowing manure and wastewater to wash away instantly – improving cleaning efficiency by over 30%.

畜牧用涂料性能汇总 LivestockGrade Coating Performance Summary			
分类 Category	检测项目 Test Item	技术指标 Technical Specification	对应中性盐雾试验时长 Standard / Notes
涂层常规性能 General Coating Performance	铅笔硬度 Pencil Hardness	≥2H	抗粪便、工具刮擦 Resistant to scratching from manure and tools
	T弯 (180°弯折) T-bend (180°)	≤3T	现场折弯、压型加工 For onsite bending and profiling
	反向冲击 (J) Reverse Impact (J)	≥9	抗撞击，适配养殖设备碰撞 Impact resistance,suitable for collisions with farming equipment
	MEK耐溶剂 (来回次数) MEK Rub Resistance (double rubs)	≥100	耐消毒水、清洗剂擦拭 Resistant to disinfectants and cleaning agents
耐腐蚀专项 Corrosion Resistance Specifics	5%盐酸浸泡 24h 5% HCl Immersion for 24h	无变色、起皱、失光 No discoloration, wrinkling, or gloss loss	抵抗畜禽排泄物酸性腐蚀 Resists acidic corrosion from livestock waste
	5%氢氧化钠浸泡 24h 5% NaOH Immersion for 24h	无变色、起皱、失光 No discoloration, wrinkling, or gloss loss	抵抗碱性消毒药剂 Resists alkaline disinfectants
	中性盐雾 (h) Neutral Salt Spray	≥1500	高湿腐蚀环境长效防护 Longterm protection in highhumidity corrosive environments
核心功能 Core Function	耐氨气 / 硫化氢 Ammonia / H ₂ S Resistance	长期接触无粉化、脱落 No chalking or peeling after prolonged exposure	畜牧圈舍核心要求 Critical requirement for livestock houses
	防霉等级 Mold Resistance Grade	0~1级	高湿环境抑制霉菌滋生 Inhibits mold growth in highhumidity environments
适用场景 Application Scenarios	畜禽圈舍墙板、屋顶板、隔断、通风管道 Wall panels, roof panels, partitions, ventilation ducts for livestock houses	-	推荐搭配镀铝锌基板，镀层≥150g/㎡ Recommended with aluminumzinc coated substrate, coating weight ≥150 g/m ²



琢瑶庭

家电专用彩涂板

Refining Elegance
Home Appliance Color Coated Steel

瑶玉琢器，赋能家居。专注家电精密深加工，以细腻的表面质感与色彩表现力，赋能高端家电制造，将山川灵秀融入生活器物，提升家居美学的温润触感。

Jade-grade Craftsmanship for Enhanced Home Living

Our core business lies in precision deep processing of home appliance components. Leveraging ultra-fine surface finishing and superior color reproduction performance, we provide manufacturing enablement for high-end home appliance products. We embed the delicate charm of natural landscapes into daily household articles, endowing domestic living spaces with mellow, pleasant tactile aesthetics.

● 适配多元场景

Versatile Applications

适配冲压、折弯、覆膜等家电加工工艺，广泛用于冰箱、洗衣机、空调、厨房电器及各类小家电外壳。

Compatible with stamping, bending, laminating, and other home appliance processing techniques. Widely used for housings of refrigerators, washing machines, air conditioners, kitchen appliances, and various small household appliances.



● 产品特点

Key Features

锌层规格定制
聚酯面层均匀



Adjustable zinc coating specifications; uniform polyester topcoat

薄涂漆面柔韧
冲压不易开裂



Thin, flexible coating withstands stamping without cracking

板形平整无瑕
版型规整精良



Flawless flat surface with precise dimensional accuracy

产品参数

Product Specifications

采用国际知名品牌家电专用涂料，正面涂层5+15 μ m，选用敬业优质表面毛化镀锌基板，钢种覆盖DX-51D+Z/DX52D+Z/DX53D+Z/DX54D+Z/DX56D+Z,厚度0.2-1.2mm。

Manufactured with internationally renowned home appliance grade coatings; top coating thickness 5+15 μ m. Utilising Jingye's premium surface textured galvanized substrates, covering steel grades DX51D+Z / DX52D+Z / DX53D+Z / DX54D+Z / DX56D+Z, in thicknesses ranging from 0.2 to 1.2 mm.

优势

Key Advantages

(1) 绿色环保：家电专用彩涂板，常规款盐雾测试不低于500小时，高端款可达1000小时，基板与面涂原料全面符合RoHS、REACH国际环保标准，无毒无害、绿色安全。

Eco Friendly & Safe: Home appliance dedicated color coated steel. Standard grades achieve salt spray test ≥ 500 hours, while premium grades reach up to 1,000 hours. Both substrate and topcoat materials fully comply with RoHS and REACH international environmental standards – non toxic, hazard free, and green.

(2) 成型加工性佳：涂层柔韧性极佳，可实现OT 180°折弯不开裂和深冲测试。

Excellent Formability: Coating offers outstanding flexibility, enabling OT 180° bending without cracking, as well as deep drawing performance.

(3) 表面质感出众：采用精密涂装，色差控制范围 $\Delta E^* \leq 0.5$ ，漆膜饱满均匀，可定制耐指纹、哑光、高光等饰面。

Superior Surface Quality: Precision coating application ensures colour difference control within $\Delta E \leq 0.5$, with a full, uniform film. Customizable finishes available, including anti fingerprint, matte, and high gloss.

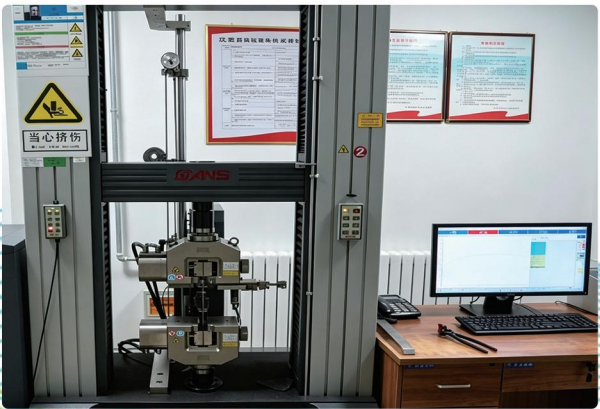
(4) 实用易打理：漆膜致密顺滑，耐污耐擦洗，油污灰尘一擦即净；同时抗刮耐磨，运输与日常使用不易产生划痕。

Practical & Easy to Maintain: Dense, smooth coating resists staining and abrasion – oil and dust wipe off effortlessly. Scratch and wear resistant, maintaining a pristine appearance during transportation and daily use.



家电涂料性能汇总 Home Appliance Coating Performance Summary			
分类 Category	检测项目 Test Item	技术指标 Technical Index	执行标准 / 补充说明 Applicable Standard / Supplementary Description
涂层常规性能 Conventional Coating Properties	铅笔硬度 Pencil Hardness	≥H (底漆) ≥H (Primer Coat)	抗日常磕碰、摩擦 Resist to daily impact and abrasion
	T 弯 (180° 弯折) T-bend (180° bend)	≤1T	家电壳体深冲、折弯成型 Deep drawing and bending forming of home appliance shells
	MEK 耐溶剂 (来回次数) MEK solvent resistance (double rubs)	≥100	耐洗洁精、酒精擦拭 Withstands wiping using detergent and isopropyl alcohol
	光泽度 (60°) Gloss (60°)	按需定制 (高光 / 亚光) ±10 Gloss customizable upon request (high gloss / matte), tolerance ±10	外观装饰要求 Appearance decoration Specifications
	反向冲击 (J) Reverse Impact Resistance (J)	≥9J	壳体抗冲击 Shell impact resistance
专项要求 Specifications	RoHS 环保 RoHS Compliance	符合指令, 无重金属析出 Comply with the directive, no heavy metal precipitation	家电强制环保标准 Mandatory environmental protection standards for home appliances
	耐水煮 Boiling Water Resistance	100°C水煮 30min 无起泡脱落 No blistering or peeling after immersion in boiling water at 100°C for 30 min	冰箱、洗衣机等涉水家电 Wet-condition home appliances such as refrigerators and washing machines
	耐指纹 Fingerprint Resistance	表面不易残留指纹, 易清洁 Not easy to leave fingerprints on the surface, easy to clean	外观件通用功能 General function of appearance parts
核心功能 Core Functions	加工适应性 Processing Formability	适配高速冲压、辊压成型 Suitable for high-speed stamping and roll forming process	家电自动化生产线 Automated production lines for household appliances
	耐温变 Thermal Cycling Resistance	-20°C~80°C循环无开裂 No cracking after thermal cycling between -20°C and 80°C	家电高低温使用环境 High and low temperature usage environments for household appliances
适用场景 Applicable Scenarios	冰箱、洗衣机、空调、小家电外壳、内胆、背板 Refrigerators, washing machines, air conditioners, small household appliance outer shells, inned liners and back panels.	-	-

美特斯微机控制电子万能试验机
MTS Universal Testing Machine

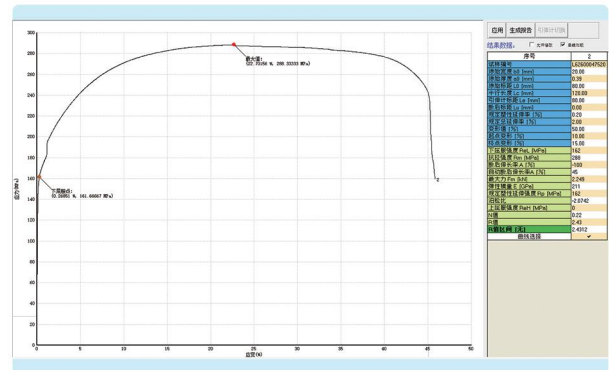


● 彩涂板拉伸试验性能曲线图

试验标准：GB/T228.1-2021，拉伸试验性能符合产品标准要求。

Tensile test curve – color coated steel.

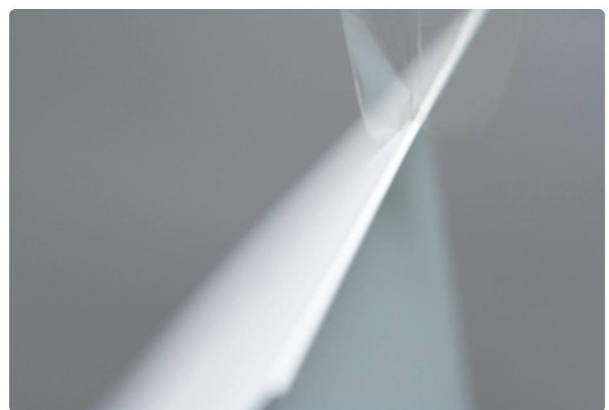
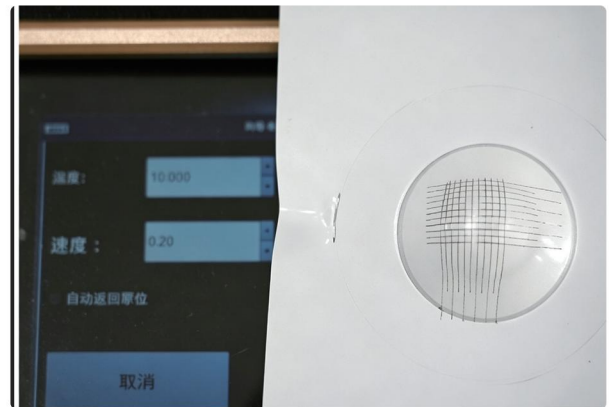
Tested in accordance with GB/T 228.1-2021, with tensile properties fully compliant with product standard requirements.



● 彩涂板划格杯突试验

试验标准：GB/T13448-2019，牌号TDC53D+Z，漆膜厚度5+15μm，切口间距：1mm，杯突速度：0.20mm/s，杯突深度10mm时，划格杯突试验结果0级。

Cross cut cupping test (GB/T13448-2019), TDC53D+Z, 5+15 μm, 1 mm spacing, 0.20 mm/s speed. At 10 mm depth, Grade 0 achieved.



● 牌号TDC53D+Z彩涂板180°T弯试验

试验标准：GB/T13448-2019，牌号TDC53D+Z，漆膜厚度5+15μm，钢卷厚度0.4mm，弯曲角度180°，试验结果0T目视不开裂。

180° T bend test (GB/T13448-2019), TDC53D+Z, 5+15 μm, 0.4 mm thick. Achieves 0T with no visible cracking.



赋灵泽

特种功能彩涂板

Bestowing Essence
Functional Specialty Color Coated Steel

以自然灵智赋能特种工业，研发适配极端工况功能板材。融自洁涂尘、广谱抗菌、静电疏导等核心涂层科技，集防腐耐候、洁净抑菌、绝缘防爆等多重性能于一体，为前沿工业领域提供定制化材料解决方案。

Inspired by nature's wisdom, we engineer high performance functional sheets tailored for extreme service conditions. Integrated with advanced coating technologies such as self cleaning, broad spectrum antimicrobial, and electrostatic dissipation, these sheets combine corrosion resistance, weatherability, hygienic antibacterial properties, insulation, and explosion protection into one solution – delivering customised material solutions for cutting edge industrial applications.

产品特点

Key Features

雨水赋能自洁 立面恒净无尘



Rainwater powered self cleaning –
facades stay clean and dust free

漆膜强效抑菌 空间洁净安全

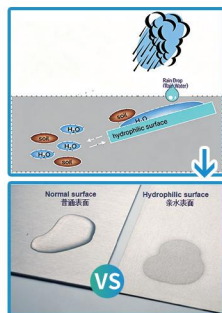


Potent antibacterial coating –
ensuring hygienic, safe spaces

快速泄放静电 生产平稳无忧



Rapid static dissipation – enabling
smooth, trouble free production



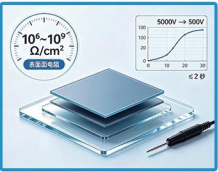
自清洁系列：亲水自洁涂层，水接触角 $\leq 50^\circ$ ，雨水自流去污。耐污性能优异，标准碳黑污染测试色差 ≤ 1.0 ，户外可实现十年免维护清洁，同时兼顾抗霉菌、抗指纹、耐候防腐能力。

Self Cleaning Series: Hydrophilic self cleaning coating with a water contact angle $\leq 50^\circ$, enabling rainwater to wash away dirt naturally. Excellent stain resistance – colour difference ≤ 1.0 under standard carbon black pollution testing. Offers up to ten years of maintenance free outdoor service, while also delivering anti mould, anti fingerprint, weatherability, and anti corrosion performance.



抗菌系列：强效抗菌涂层，24h对大肠杆菌、金黄色葡萄球菌抑菌率 $\geq 99\%$ 。抗菌效果可持续15年以上，同时符合食品接触安全标准，无有害物质析出。

Antibacterial Series: High efficacy antibacterial coating – inhibits $\geq 99\%$ of E. coli and Staphylococcus aureus within 24 hours. The antibacterial effect lasts over 15 years. Fully compliant with food contact safety standards – no hazardous substance migration.



➤ **抗静电彩涂板：**标准表面电阻为10⁶~10⁹Ω/cm²，静电消散时间 ≤ 0.1 秒，长期使用十年内电阻值波动小于10%；5000V电压衰减至500V，耗时 ≤ 2 秒。

Anti Static Color Coated Steel: Surface resistivity in the range of 10⁶–10⁹ Ω/cm²; static decay time ≤ 0.1 seconds. Resistance fluctuation remains within 10% over ten years of service. Voltage decay from 5000V to 500V in ≤ 2 seconds.

自清洁涂料性能汇总 SelfCleaning Coating Performance Summary			
分类 Category	检测项目 Test Item	技术指标 Technical Specification	执行标准 / 补充说明 Standard / Notes
涂层常规性能 General Coating Performance	铅笔硬度 Pencil Hardness	$\geq H$	抗风沙、杂物刮擦 Resistant to windblown sand and debris abrasion
	T弯 (180°弯折) TBend (180° Bend)	$\leq 3T$	正常建筑压型加工 For standard building profiling
	MEK耐溶剂 (来回次数) MEK Solvent Resistance (double rubs)	≥ 100	耐户外清洗剂 Resistant to outdoor cleaning agents
	QUV老化 (UVA340, h) QUV Accelerated Aging (UVA340, h)	≥ 1500	户外长效耐候 Longterm outdoor weatherability
自洁核心指标 Core SelfCleaning Indicators	水接触角 Water Contact Angle	亲水型 $\leq 50^\circ$; 疏水型 $\geq 110^\circ$ Hydrophilic $\leq 50^\circ$; Hydrophobic $\geq 110^\circ$	亲水：雨水冲刷自洁；疏水：拒水防污 Hydrophilic: rainwashing selfcleaning; Hydrophobic: waterrepellent and antisoiling
	耐沾污性 (ΔE^*) Stain Resistance (ΔE^*)	≤ 1.0 (碳黑污染测试) ≤ 1.0 (carbon black soiling test)	长期户外不积灰、不留污渍 No dust accumulation or staining in longterm outdoor service
	反射系数 (SRI) Solar Reflectance Index (SRI)	≥ 0.78	隔热降温，多用于屋面 Heat insulation and cooling – primarily for roofing
附加性能 Additional Properties	耐酸雨 Acid Rain Resistance	浸泡测试无失光、起皮 No gloss loss or peeling after immersion	户外大气腐蚀防护 Protection against atmospheric corrosion
适用场景 Application Scenarios	厂房屋面、商业建筑外墙、光伏支架、露天场馆 Factory roofs, commercial building facades, photovoltaic mounting structures, openair venues	-	-

抗菌涂料性能汇总 Antibacterial Coating Performance Summary			
分类 Category	检测项目 Test Item	技术指标 Technical Specification	执行标准 / 补充说明 Standard / Notes
涂层常规性能 General Coating Performance	铅笔硬度 Pencil Hardness	≥H	日常清洁擦拭耐磨 Resistant to abrasion from daily cleaning
	T 弯 (180° 弯折) TBend (180° Bend)	≤3T	板材折弯加工 For sheet bending and forming
	MEK 耐溶剂 (来回次数) MEK Solvent Resistance (double rubs)	≥100	耐 84、消毒水腐蚀 Resistant to disinfectants (e.g., 84, bleach)
	防霉等级 Mold Resistance Rating	0~1 级	高湿环境抑制霉菌 Inhibits mold growth in highhumidity environments
抗菌专项指标 Antibacterial Specifics	抗菌率 Antibacterial Rate	大肠杆菌、金黄色葡萄球菌≥99.9% ≥99.9% against E. coli and S. aureus	ISO22196:2007 标准检测 Tested per ISO 22196:2007
	抗菌持久性 Antibacterial Durability	长期使用抗菌效果不衰减 Longterm efficacy without degradation	无机银离子抗菌剂，无耐药性 Inorganic silverion antibacterial agent – no bacterial resistance
	无毒安全性 NonToxicity & Safety	无毒、无刺激性，食品级兼容 Nontoxic, nonirritating; foodcontact compatible	可用于食品加工、医疗区域 Suitable for food processing and medical areas
核心功能 Core Function	抑菌范围 Antimicrobial Spectrum	细菌、真菌、霉菌、部分病毒 Bacteria, fungi, molds, and certain viruses	广谱抗菌 Broadspectrum antibacterial
适用场景 Application Scenarios	医院、食品加工厂、制药车间、实验室 Hospitals, food processing plants, pharmaceutical workshops, laboratories		



抗静电涂料性能汇总 AntiStatic Coating Performance Summary			
分类 Category	检测项目 Test Item	技术指标 Technical Specification	执行标准 / 补充说明 Standard / Notes
涂层常规性能 General Coating Performance	铅笔硬度 Pencil Hardness	≥H	洁净区频繁清洁耐磨 Wearresistant for frequent cleaning in clean areas
	T 弯 (180° 弯折) TBend (180° Bend)	≤3T	板材成型加工 For sheet forming
	MEK 耐溶剂 (来回次数) MEK Solvent Resistance (double rubs)	≥100	耐洁净区专用清洗剂 Resistant to cleanroomspecific cleaning agents
抗静电核心指标 AntiStatic Core Indicators	涂层表面电阻 Surface Resistivity	10 ⁶ ~ 10 ⁹ Ω/m ²	标准防静电区间，不吸尘、不积电 Standard antistatic range – prevents dust attraction and charge buildup
	静电消散时间 Static Decay Time	≤0.5s	快速释放静电 Rapid electrostatic dissipation
	耐水洗稳定性 Wash Stability	多次擦拭后电阻无大幅波动 No significant fluctuation after repeated wiping	长期使用性能稳定 Stable longterm performance
附加性能 Additional Properties	防尘性 Dust Resistance	静电吸附灰尘量大幅降低 Drastically reduced electrostatic dust attraction	洁净室核心需求 Critical for clean rooms
适用场景 Application Scenarios	电子车间、机房、精密仪器室、摄影车间、净化彩涂板 Electronics workshops, server rooms, precision instrument rooms, photography studios, cleanroom coated sheets	-	-





绘灵纹 表面效果彩涂板

Weaving Patterns
Surface Effect Color Coated Steel

以精工巧艺雕琢立面美学，打造风格多元的饰面板材。融合网纹、绒面、印花、随角异色等特色工艺，集丰富肌理、温润光泽、细腻触感、灵动视觉于一体，为各类场景打造高颜值质感饰面方案。

Meticulous craftsmanship sculpts architectural aesthetics, presenting a diverse palette of decorative panels. Integrating distinctive processes such as network textures, suede finishes, printed patterns, and color-shifting effects, these sheets combine rich surface character, warm lustre, delicate tactile feel, and dynamic visual appeal—delivering high end aesthetic finishing solutions for a wide range of applications.

产品特点 Key Features



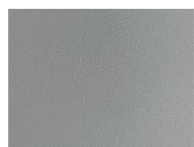
千纹焕彩，光华尽显

A thousand textures, a spectrum of brilliance – every finish shines



质感卓群，触感悠然

Superior tactile quality, with a gentle, inviting touch



» **网纹彩涂板：**细密均匀的网状 / 裂纹状纹理，低光泽漫反射，色彩饱和度高。

Embossed Color Coated Steel: Fine, uniform mesh like or crackle patterns, with low gloss diffuse reflection and high colour saturation.



» **绒面彩涂板：**全哑光质感（60°光泽度小于5GU），触感如短绒皮革，视觉柔和，不显指纹。

Suede Color Coated Steel: Full matte texture (60° gloss <5 GU), offering a soft, short pile leather like feel. Visually subdued, with minimal fingerprint visibility.



» **印花彩涂板：**可逼真模拟木纹、石纹、砖纹、几何等天然材质纹理，表层罩涂保护清漆，成品图案清晰度≥120dpi。

Printed Color Coated Steel: Realistically simulate wood grain, stone, brick, geometric patterns, and other natural textures. Protected by a clear topcoat, finished patterns achieve a clarity of ≥120 dpi.



» **变色龙（随角异色）：**不同视角呈现渐变色彩效果（如蓝→紫→金），视觉炫酷，辨识度极高。

Chameleon (color-shifting) Sheets: Dynamic colour shifting effects – transitioning, for example, from blue to purple to gold – as viewing angles change. Visually stunning and highly distinctive.

网纹、绒面涂料性能汇总			
Network Texture & Suede Finish Coating Performance Summary			
分类 Category	检测项目 Test Item	技术指标 Technical Specification	执行标准 / 补充说明 Standard / Notes
涂层常规性能 General Coating Performance	铅笔硬度 Pencil Hardness	≥H	立体纹理抗划伤能力强 Strong scratch resistance for textured surfaces
	T 弯 (180° 弯折) TBend (180° Bend)	≤3T	纹理折弯后不断裂、不变形 Texture remains intact – no cracking or distortion after bending
	MEK 耐溶剂 (来回次数) MEK Solvent Resistance (double rubs)	≥100	耐清洗、耐化学品 Resistant to cleaning agents and chemicals
	光泽度 (60°) Gloss (60°)	< 5GU (低光泽漫反射) <5 GU (lowgloss diffuse reflection)	柔和不反光，防眩光 Soft, nonreflective finish – antiglare
网纹专项性能 Network Texture Specifics	纹理均匀性 Texture Uniformity	整张板面网纹疏密、深浅一致 Consistent density and depth across the entire sheet	工艺核心指标 Key process quality indicator
	耐磨性能 Abrasion Resistance	耐磨等级≥4 级 ≥Grade 4	立体纹理耐踩踏、摩擦 Textured surface withstands foot traffic and friction
	防滑性 Slip Resistance	表面摩擦系数≥0.35 Coefficient of friction ≥0.35	地面、踏板适用防滑功能 Antislip performance suitable for flooring and treads
	耐候性 Weather Resistance (QUV)	QUV≥1500h	户外使用纹理不退化 Texture stability under outdoor exposure
核心功能 Core Functions	漫反射、低眩光 立体装饰、耐磨防滑 Diffuse reflection, low glare, threedimensional decoration, wearresistant and antislip	-	区别于光面彩涂的核心优势 Distinct advantages over smoothfinish coated sheets
适用场景 Application Scenarios	高端建筑幕墙、室内装饰、别墅、集成房屋、交通走道、家具面板 Highend building facades, interior decoration, villas, prefabricated houses, walkways, furniture panels	-	-

印花性能汇总 Printed Pattern Coating Performance Summary			
分类 Category	检测项目 Test Item	技术指标 Technical Specification	执行标准 / 补充说明 Standard / Notes
涂层常规性能 General Coating Performance	铅笔硬度 Pencil Hardness	≥H	图案耐刮擦，不掉色 Pattern resists scratching without colour loss
	T弯 (180° 弯折) TBend (180° Bend)	≤3T	折弯后 图案无开裂、脱落 No cracking or peeling after bending
	耐摩擦 (干 / 湿擦) Abrasion Resistance (dry/wet)	干擦≥500 次 湿擦≥300 次 Dry ≥500 rubs; Wet ≥300 rubs	图案耐磨 日常使用不磨损 Pattern durable for daily use
	色差 (印花层) Colour Difference (Printed Layer)	ΔE*≤1.0	同批次图案色彩一致 Consistent colour across same batch
印花专项性能 Pattern Specific Performance	图案附着力 Pattern Adhesion	划格法 0 级 Crosscut test – Grade 0	图案与基底涂层结合牢固 Strong bond between pattern and base coating
	耐候性 (QUV) Weather Resistance (QUV)	≥1000h (室内) ≥1500h (户外) ≥1,000 h (indoor); ≥1,500 h (outdoor)	图案不褪色、不模糊 No fading or blurring of pattern
	耐溶剂 Solvent Resistance	酒精擦拭无掉色 No colour loss after alcohol wiping	日常清洁安全 Safe for routine cleaning
核心功能 Core Functions	图案适配性 Pattern Customisability	可实现木纹、石纹、卡通、几何纹理 Realistic wood grain, stone, cartoon, geometric patterns	定制化装饰效果 Customisable decorative effects
适用场景 Application Scenarios	室内装饰墙板、家电面板、家具、集成房屋、广告展板 Interior decorative wall panels, appliance panels, furniture, prefabricated houses, advertising boards		-

变色龙涂料性能汇总 Chameleon (ColorShifting) Coating Performance Summary			
分类 Category	检测项目 Test Item	技术指标 Technical Specification	执行标准 / 补充说明 Standard / Notes
涂层常规性能 General Coating Performance	铅笔硬度 Pencil Hardness	≥H	保护变色层不被刮伤 Protects the colorshifting layer from scratches
	T弯 (180° 弯折) TBend (180° Bend)	≤3T	弯折后变色效果正常 无开裂 No cracking; colorshift effect remains intact after bending
	MEK 耐溶剂 (来回次数) MEK Solvent Resistance (double rubs)	≥80	谨慎使用强溶剂擦拭 Avoid strong solvents – use with care
	基础色差 Base Colour Difference	基准色 $\Delta E^* \leq 1.0$ $\Delta E^* \leq 1.0$ (reference colour)	无光 / 标准角度下颜色统一 Consistent colour under standard lighting/viewing angles
变色专项性能 ColorShift Specifics	变色原理 ColorShift Mechanism	光变 / 角度变色 / 温变 Photochromic / Angledependent / Thermochromic	主流为角度变色 Angledependent (pearlescent) is the mainstream type
	变色效果 ColorShift Effect	不同视角 呈现 2-3 种渐变色彩 2-3 gradient colour transitions from different viewing angles	视觉动态效果 Dynamic visual effect
	变色持久性 ColorShift Durability	正常使用 3 年以上 效果不衰减 Effect remains stable for >3 years under normal use	微胶囊稳定性指标 Indicator of microcapsule stability
	耐紫外线 UV Resistance (QUV)	QUV≥1000h	紫外线不加速变色失效 UV exposure does not accelerate colourshift failure
适用场景 Application Scenarios	高端装饰幕墙、奢侈品展柜、 广告标牌、艺术装饰、 高端家电外观件 Highend decorative facades, luxury display cases, signage, art installations, premium appliance exteriors	-	严禁高温烘烤、强溶剂擦拭 户外使用寿命短 优先室内 / 半室外场景 Note: Avoid hightemperature baking and strong solvent wiping. Limited outdoor service life – prioritise indoor or semioutdoor applications

技术工艺篇

精工智造·全链可控

Technology and Process

Precision Smart Manufacturing · Full-Chain Controllability



产线装备详解

Detailed Overview of Production Line Equipment

酸连轧/镀锌/镀铝锌/彩涂/加工服务中心

Pickling Line/Tandem Cold Rolling Mill (PL-TCM) / Galvanizing / Aluminum-Zinc Coating / Color Coating / Processing Service Centre



酸洗—冷连轧联合生产机组

Pickling Line-Tandem Cold Rolling Mill (PL-TCM) Units

高品钢拥有两条1450mm酸洗—冷连轧联合生产机组，设计产能260万吨/年，生产规格范围0.2~2.5mm*750~1300mm。机组配套拆捆带机器人、搭载焊缝质量检测QCDS系统的全自动激光焊机、浅槽紊流酸洗+五级串级逆流漂洗、五机架六辊冷连轧机、双卷筒回转式卷取机、出口自动打捆装置及贴标机器人、表面质量检查系统、质量大数据系统等，可稳定生产厚度公差 $\pm 20\mu\text{m}$ ，平直度 $\leq 10\text{IUnit}$ 的汽车外板/内板、家电面板、高端建材、彩涂/镀锌基板、包装制罐、电机铁芯、精密冲压件。

High-Quality Steel operates two 1450mm PL-TCM units with a designed annual capacity of 2.6 million tonnes, producing coils in thicknesses ranging from 0.2 to 2.5 mm and widths from 750 to 1,300 mm. Each line is equipped with a strip uncoiling band remover robot, a fully automatic laser welder integrated with a QCDS (Quality Control of Weld Detection System) for seam quality inspection, shallow tank turbulent acid pickling coupled with five stage cascade counter current rinsing, a five stand six high tandem cold mill, dual mandrel rotary coilers, an exit end automatic strapping unit and labeling robot, a surface quality inspection system, and a big data quality management system. The lines are capable of stably producing automotive outer/inner panels, home appliance panels, high end construction materials, pre painted/galvanizing base stock, packaging and can making materials, motor lamination cores, and precision stamping parts, with thickness tolerances of $\pm 20\mu\text{m}$ and flatness of $\leq 10\text{IUnit}$.

核心数据一览

260
万吨/年产能

0.2-2.5mm×750-1300mm
生产规格范围

$\pm 20\mu\text{m}$
生产厚度公差

$\leq 10\text{IUnit}$
平直度



镀锌机组

Galvanizing Lines

高品钢配备1450mm热镀锌机组3条，设计产能90万吨/年，可生产0.25-3.00mm*750~1300mm家电、建材、汽车内件用途的镀锌板。机组采用美钢联法生产，采用天津应达感应锌锅及杜马气刀，配备四辊式湿平整、两弯两矫、辊涂钝化、L2控制系统，可保证板型优良、质量稳定。

High-Quality Steel is equipped with three 1450mm hot-dip galvanizing lines, with a designed annual capacity of 900,000 tonnes. These lines produce galvanized sheets in thicknesses ranging from 0.25 to 3.00 mm and widths from 750 to 1,300 mm, for applications in home appliances, construction, and automotive inner parts. The lines adopt the U.S. Steel (USS) process and are fitted with induction zinc pots (supplied by Tianjin Yingda) and Duma air knives. They are also equipped with four high wet temper rolling mills, two bend two straightener units, roll coating passivation systems, and Level 2 control systems, ensuring excellent strip shape and stable product quality.

核心数据

90
万吨/年产能

0.25-3.0_{mm}×750-1300_{mm}
生产规格范围

镀铝锌机组

Aluminum Zinc Coating Lines

高品钢拥有连续热镀铝锌机组2条，设计产能60万吨/年，可生产规格0.2-2.5mm×750~1300mm、应用于电气领域、建筑建材、光伏、家电、汽车及彩涂基板领域的镀铝锌板。机组配置天津应达高效清洗装置、立式退火炉、余热回收系统、高精度气刀与在线测厚设备，精准控制镀层厚度；配套平整+拉矫机组，有效优化板面板形、提升平直度。整条产线可稳定产出高耐腐蚀性、板面洁净、力学性能优异、镀层致密均匀、尺寸公差精密的热镀铝锌成品。

High-Quality Steel operates two continuous hot-dip aluminum zinc coating lines, with a designed annual capacity of 600,000 tonnes. These lines produce aluminum zinc coated sheets in thicknesses ranging from 0.2 to 2.5 mm and widths from 750 to 1,300 mm, for applications in electrical equipment, building and construction materials, photovoltaics, home appliances, automotive, and pre painted base stock. Each line is equipped with Tianjin Yingda high efficiency cleaning units, vertical annealing furnaces, waste heat recovery systems, high precision air knives, and on-line thickness gauging devices for precise coating weight control. Supplementary temper mills and tension levelers are incorporated to effectively optimise strip shape and enhance flatness. The entire production line can consistently deliver high quality hot dip aluminum zinc coated products featuring excellent corrosion resistance, clean surfaces, superior mechanical properties, dense and uniform coatings, and precise dimensional tolerances.

核心数据

60

万吨/年产能

0.2-2.5mm×750-1300mm

生产规格范围



· 闭环镀层控制系统



· 分段复合退火炉



· 精整成套机组



· 脱脂段设备

彩涂机组

Color Coating Lines



· 固化炉



· 喷码机+拉矫机



· 脱脂段设备

高品钢拥有1450mm彩涂机组两条,设计产能30万吨/年,可生产0.2-1.2mm*750-1350mm建筑、家电、装饰、光伏彩涂板。机组采用两涂两烘连续辊涂+独立固化核心工艺,配套进口冷热覆膜机组、三用一备印花机组,拉矫机组、高精度涂机、分区固化炉、智能温控系统、RTO蓄热炉,具有脱脂清洗、化涂、压花、矫平等功能,搭配阿克苏、立邦、KCC等国际一线品牌工业涂料,产品覆盖高端厂房、家电、幕墙、光伏级彩涂板,兼具强耐候、高防腐、超平整、色彩稳定等优势。

High-Quality Steel operates two 1450mm color coating lines with a combined annual design capacity of 300,000 tonnes. They produce color coated steel in thicknesses of 0.2–1.2 mm and widths of 750–1,350 mm, for construction, home appliances, decoration, and photovoltaic applications. The lines feature a core process of two coat two cure continuous roll coating with independent curing, and are equipped with imported cold/hot film laminating units, three active printing units plus one standby, tension levellers, high precision coaters, zoned curing ovens, intelligent temperature control systems, and RTO regenerative thermal oxidizers. They offer functions including degreasing cleaning, chemical pretreatment, embossing, and levelling. Paired with internationally renowned industrial paints from AkzoNobel, Nippon Paint, and KCC, the product range covers high end industrial buildings, home appliances, curtain walls, and photovoltaic grade color coated steel, combining strong weatherability, high corrosion resistance, superior flatness, and stable colour performance.

核心数据

30
万吨/年产能0.2-1.2mm×750-1350mm
供货规格范围

加工服务中心

Processing Service Centre

高品钢加工服务中心是敬业集团高品钢事业部全新组建的核心业务板块，依托全产业链资源与技术优势，以“高精度、高效率、定制化”为核心，专注服务家电与汽车行业的高端钢材加工需求。

中心配备行业领先的高精度横剪线与纵剪分条线，可加工厚度0.3-3.0mm、宽达1650mm、卷重20吨的钢卷。横切定尺长度可达4000mm（精度 $\pm 0.3\text{mm}$ ），纵剪分条可达30条（精度 $\pm 0.05\text{mm}$ ）。加工范围覆盖冷轧、镀锌、镀铝锌、彩涂、酸洗等全品类钢材，年加工能力10万吨。依托双线协同，可灵活承接大批量标准料、小批量试制及多品种拼单等全场景订单，为客户提供一站式钢材加工解决方案。

The High-Quality Steel Processing Service Centre is a newly established core division of Jingye Group's High-quality Steel Business Unit. Leveraging the Group's full chain resources and technological strengths, it focuses on high precision, high efficiency, and customised processing, dedicated to serving the premium steel processing needs of the home appliance and automotive sectors.

The centre is equipped with industry leading high precision cut to length and slitting lines, capable of handling coils 0.3–3.0 mm thick, up to 1,650 mm wide, and weighing up to 20 tonnes. Cut to length sheets can reach 4,000 mm in length (accuracy $\pm 0.3\text{ mm}$), while slitting can produce up to 30 strips (accuracy $\pm 0.05\text{ mm}$). The processing portfolio covers all steel product types – cold rolled, galvanized, aluminum zinc coated, color coated, and pickled – with an annual capacity of 100,000 tonnes. With the synergy of the two lines, we flexibly accommodate all order scenarios, from large volume standard orders and small batch trials to multi product combined consignments, delivering one stop steel processing solutions to our customers.

核心数据

0.3-3.0mm

加工厚度

1650mm

加工宽度

4000mm

横切定尺长度

30条

纵剪分条



· 纵剪刀架

敬业彩涂板

Jingye Color coated Steel

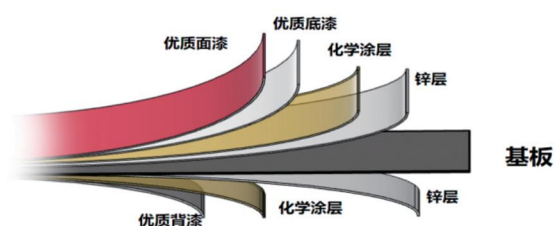


彩涂板

Color coated Steel

彩涂板是以热镀铝锌/热镀锌板为基板，辊涂有机涂料并经高温固化成型的金属装饰板材，广泛应用于钢结构厂房、净化车间、装配式复合板、仓储围挡、家电等领域。

Color coated steel products, manufactured on hot dip aluminum zinc or galvanized substrates. The organic coatings are roll applied and cured at high temperatures, delivering durable, metal decorative sheets. Widely used in steel structured workshops, clean rooms, prefabricated composite panels, storage enclosures, home appliances, and beyond.

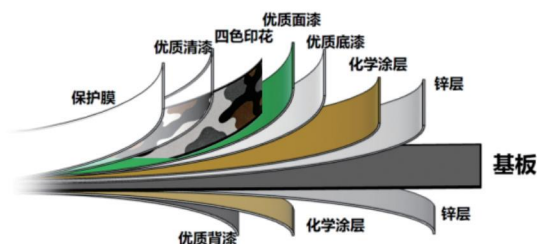


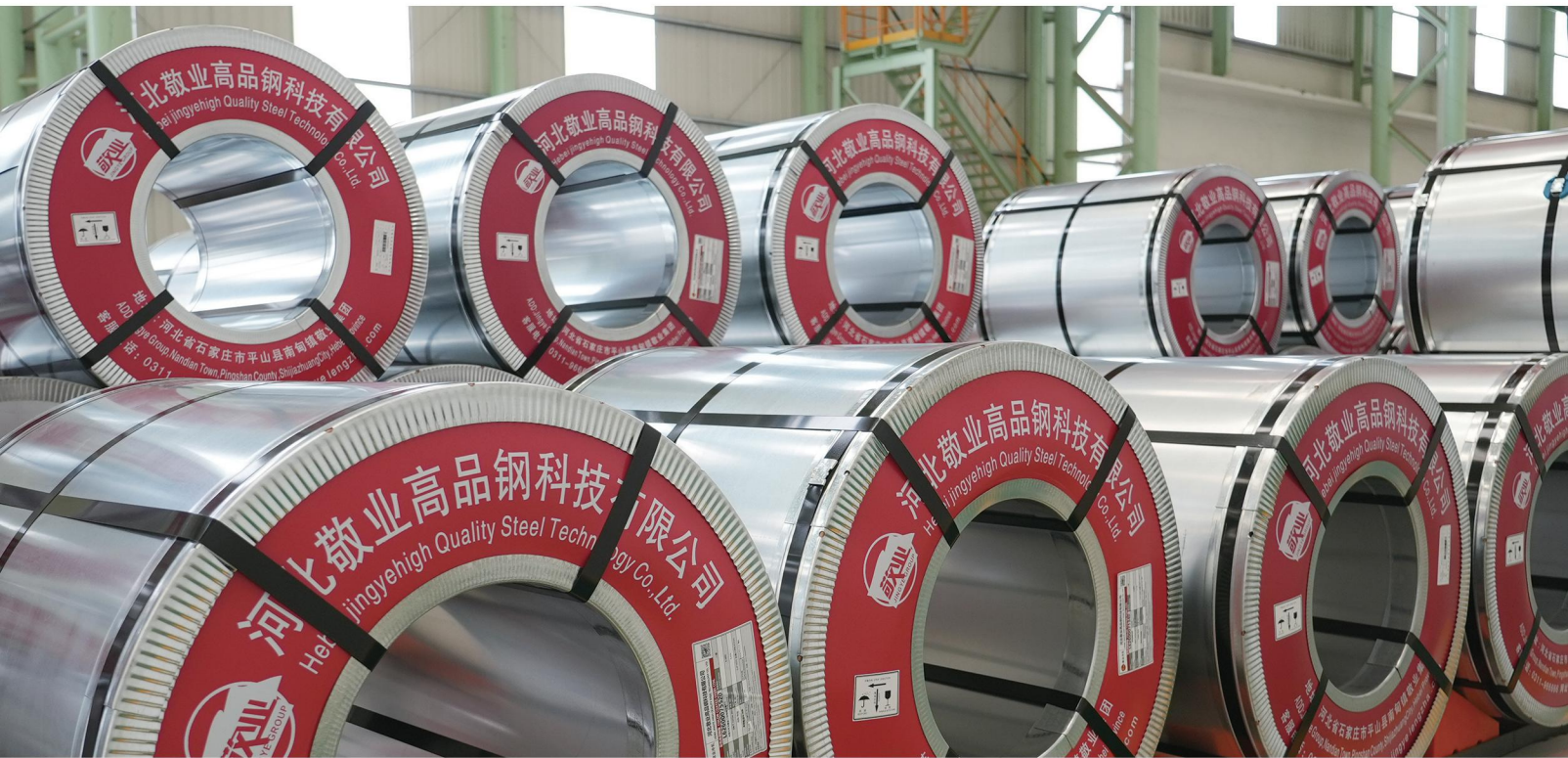
彩涂印花板

Printed Color coated Steel

印花板表面采用三色印花工艺,印有彩色的图案,具有良好的装饰性、色彩丰富、图案纹理丰富的特点,广泛应用于外墙装饰、装配式轻钢别墅。

Featuring a three colour printing process, these sheets deliver vibrant patterns with excellent decorative appeal, rich colour options, and diverse surface textures. Widely applied in exterior wall cladding and prefabricated light steel villas.

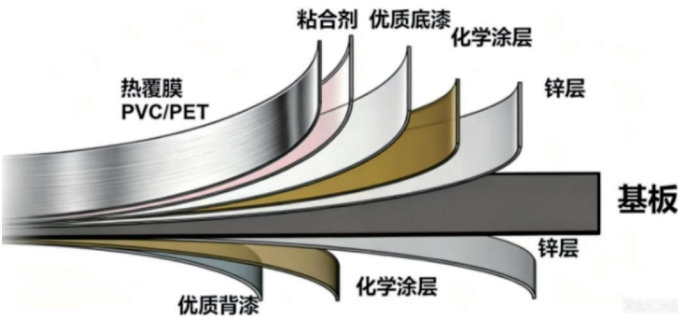




彩涂热覆膜产品
Heat Laminated Color coated Steel Products (VCM Sheets)

是高端家电、精密装饰专用的功能性金属板材。板材表面平整度高，兼具金属结构强度、薄膜高耐磨、耐污、耐酸碱、抗指纹等多重性能，深加工性能优异，折弯、深冲、滚边不开裂、不脱膜，是目前高端白电、厨卫电器、高端装饰领域的主流顶配板材。

Laminated color coated steel, these are premium functional metal panels designed specifically for high end home appliances and precision decorative applications. Featuring exceptional surface flatness, they combine the structural strength of steel with superior film properties — high wear resistance, stain resistance, acid and alkali resistance, and anti fingerprint performance. Excellent formability ensures crack free and peel free performance during bending, deep drawing, and roll forming. Today, they represent the leading choice in high end white goods, kitchen and sanitary appliances, and premium decorative finishes.



尺寸规格

Dimensions & Specifications

设计宽度范围 Design Width Range 750-1350mm	设计厚度范围 Design Thickness Range 0.2-1.2mm	可供货内径 Available Inner Diameter 508/610mm
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彩涂牌号

Color Coating Grades

热镀锌基板 Hot dip galvanized	热镀铝锌基板 Hot-dipped galvalume	用途 Applications	执行标准 Standard
TDC51D+Z	TDC51D+AZ	一般用 Commercial	GB/T 12754-2019
TDC52D+Z	TDC52D+AZ	冲压用 Drawing	
TDC53D+Z	TDC53D+AZ		
TDC54D+Z	TDC54D+AZ	深冲压用 Deep Drawing	
TS250GD+Z	TS250GD+AZ	结构用 Structure	
TS280GD+Z	TS280GD+AZ		
TS300GD+Z	TS300GD+AZ		
TS320GD+Z	TS320GD+AZ		
TS350GD+Z	TS350GD+AZ		
TS550GD+Z	TS550GD+AZ		

涂层种类

Coating Types

敬业彩涂产品有普通聚酯(PE)、硅改性聚酯(SMP)、高耐候(HDP)、氟碳(PVDF)等彩涂不同涂料品种。

Jingye color coated products are available in a variety of premium coating systems, including polyester (PE), fluorocarbon (PVDF), silicone modified polyester (SMP), high durability (HDP), and more.

涂层结构

Coating Structures

敬业彩涂产品有1/1、2/0、2/1、2/2、3/2等不同的涂层结构。

Jingye color coated products are available in a variety of coating configurations including 1/1.2/0.2/1.2/2 and 3/2



四种主流涂层性能对比表

Performance Comparison – Four Main Coating Systems

涂层种类 Coating Types	基板类型 Substrate Types	涂层厚度/μm Coating Thickness (μm)	MEK	T-BEND	5%HCl/h	5%NaOH/h	NSS/h	QUVA/h
PE 聚酯	Z/AZ	5+15	≥100	3T	24	24	1000	1000
SMP 硅改性聚酯	Z/AZ	5+18	≥100	3T	24	24	1500	1500
HDP 高耐候聚酯	Z/AZ	5+18	≥100	3T	24	24	1500	1500
PVDF 氟碳	Z/AZ	5+20	≥100	2T	24	24	2000	2000

*敬业彩涂板以量化性能梯度，精准适配项目腐蚀环境与耐久需求。
Jingye color coated steel feature quantifiable performance grading, precisely tailored to the corrosive conditions and durability requirements of each project.

敬业彩涂板色卡

Jingye Color Coated Steel – Color Chart

瓷白灰 JY001	亚光白 JY002	白色 JY003 RAL0903	纯白 JY004 RAL0905	浅黄白 JY005	银灰 JY006	象牙色 JY007 RAL0905	金属灰 JY008	国际乳白 JY009	瓦蓝色 JY010	宝石蓝 JY011	幽蓝 JY012	敬业亮蓝 JY013	水蓝色 JY014	水鸭色 JY015	冰青蓝 JY016	青水蓝 JY017	群蓝色 JY018
浅白灰 JY019	白色 JY020 RAL0906	玉白 JY021	山打白 JY022	龙脊白 JY023	古铜白 JY024	天蓝色 JY025	深蓝 JY026 RAL0905	波普蓝 JY027 RAL0905	亮瓦蓝 JY028	宝蓝 JY029	亮红 JY030	粉红 JY031	玫瑰红 JY032	品质红 JY033 RAL0901	红色 JY034 RAL0903	酒红 JY035 RAL0905	暗红 JY036 RAL0907
交通黄 JY037 RAL0903	原铁黄 JY038	淡赤黄 JY039	暖黄 JY040	油漆黑 JY041	深炭黑 JY042	环氧灰白半漆 JY043	高耐候灰白半漆 JY044	敬业海蓝 JY045	紫红 JY046 RAL0905	咖啡红 JY047 RAL0905	活力橙 JY048 RAL0905	豆沙红 JY049	浅暗红 JY050	中国红 JY051	天铁红 JY052	工业灰 JY053	灰色 JY054 RAL0904
敬业白灰 JY055	敬业铁青灰 JY056	敬业大绿灰 JY057	敬业象牙白 JY058	敬业暗红 JY059	敬业米白色 JY060	敬业白蜡黑1漆 JY061	敬业珠光白 JY062	敬业亮蓝 JY063	白瓷灰 JY064	冷青灰 JY065	深青灰 JY066	亮银灰 JY067	深绿 JY068 RAL0905	环保绿 JY069	亮绿 JY070 RAL0905	松石绿 JY071 RAL0905	草绿色 JY072 RAL0905
白瓷灰 JY073	冷青灰 JY074	深青灰 JY075	亮银灰 JY076	深绿 JY077 RAL0905	环保绿 JY078	亮绿 JY079 RAL0905	松石绿 JY080 RAL0905	草绿色 JY081 RAL0905	嫩芽绿 JY082 RAL0905	薄荷绿 JY083	橄榄绿 JY084	苍绿色 JY085	淡蓝绿 JY086	国防绿 JY087	豆绿 JY088 RAL0905	乳酪色 JY089 RAL0905	纯橙色 JY090 RAL0905

品质检测篇

权威实测·长效保障

Quality Testing – Authoritative Verification,
Long term Assurance

>> 18项关键检测能力展示

① 彩涂基板力学性能的检测

美特斯微机控制电子万能试验机

0.5级精度 | 60万分辨力 | 2000Hz高速采控 | 全自动横纵向引伸计
适配0.2-25mm板材，检测抗拉/屈服/延伸率，兼容GB、ASTM标准
全规格智能检测，保障彩涂基板力学性能全数达标。

Mechanical Property Testing of Color Coated Substrates

MTS Microcomputer controlled Electronic Universal Testing Machine

- Accuracy Class 0.5 | 600,000 Resolution | 2,000 Hz High speed Acquisition
- Automatic Transverse & Longitudinal Extensometer
- Applicable to sheets 0.2–25 mm thick, testing tensile strength, yield strength, and elongation – compliant with both GB and ASTM standards. Intelligent testing across all specifications ensures that the mechanical properties of every color coated substrate fully meet the required standards.



微机控制电子万能试验机

② 锌液成分的检测

搭载iCAP7200、ARL iSPARK 8860设备，搭建“固体快反+液体精测”双轨联控体系，炉前速检、实验室精标，锌液全流程闭环管控，成分完全契合工艺标准。

Zinc Bath Composition Analysis

Equipped with iCAP7200, ARL iSPARK 8860 instruments, we have established a dual track integrated control system – “rapid solid state screening + precise liquid analysis”. Combined with fast on site inspection at the furnace and rigorous laboratory calibration, the entire process ensures closed loop control of zinc bath composition, with all parameters fully aligned with process standards.



火花直读光谱仪



电感耦合等离子体发射光谱仪

③ 彩涂基板镀层重量检测

4台日本理学ZSX Primus IVi Coating Analyzer 荧光仪配套北京泰格瑞祥SCARA机械手，搭建实验室精检+产线在线监控双轨联控体系，实时调控，镀层重量全部符合国标。

Coating Weight Measurement for Color Coated Substrates

Equipped with four Rigaku ZSX Primus IVi Coating Analyzers (XRF) and SCARA robotic arms, we have established a dual track integrated control system – combining precise laboratory testing with real time production line monitoring. Continuous dynamic adjustment ensures that all coating weights fully comply with GB standards.



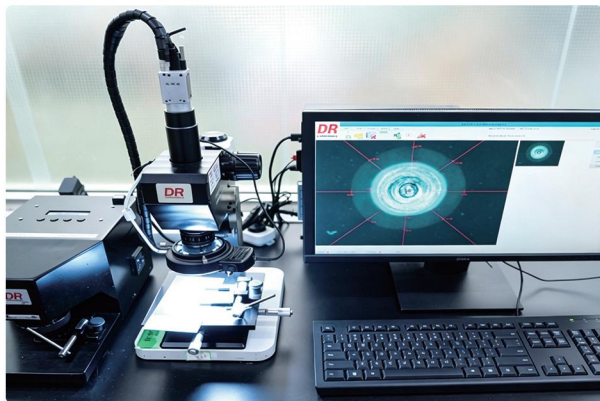
日本理学ZSX Primus IVi Coating Analyzer
理学荧光仪

④ 涂层厚度检测

韩国DR钻孔式干膜测厚仪（破坏型）与德国EPK麦考特MIKROTEST G6磁性测厚仪（无损型），构建了“快速无损筛查+精准破坏定标”的双轨联控体系。一台负责产线秒级快检，一台负责实验室精准仲裁，全覆盖各类板材涂层厚度管控。

Coating Thickness Measurement

We employ a dual track integrated control system – rapid non destructive screening paired with precise destructive calibration – using the DR bore type dry film thickness gauge (destructive) from Korea and the EPK Mikrotest G6 magnetic thickness gauge (non destructive) from Germany. One delivers second level rapid inspection on the production line; the other provides accurate arbitration in the laboratory. Together, they ensure comprehensive thickness control across all sheet types and specifications.



DR钻孔式干膜测厚仪



麦考特磁性测厚仪

5 镜面光泽检测

配备BYK4561（60°单角度）、BYK4563（20°/60°/85°三角度）光泽仪，按需选配对应设备开展检测，适配多样工况标准，严控彩涂板外观光泽，契合各类客户需求。

Specular Gloss Measurement

Equipped with BYK 4561 (60° single angle) and BYK 4563 (20°/60°/85° three angle) gloss meters, we select the appropriate instrument according to specific requirements, adapting to diverse operating conditions and standards. This ensures strict control over the surface gloss of color coated steel, precisely meeting the varied needs of our customers.



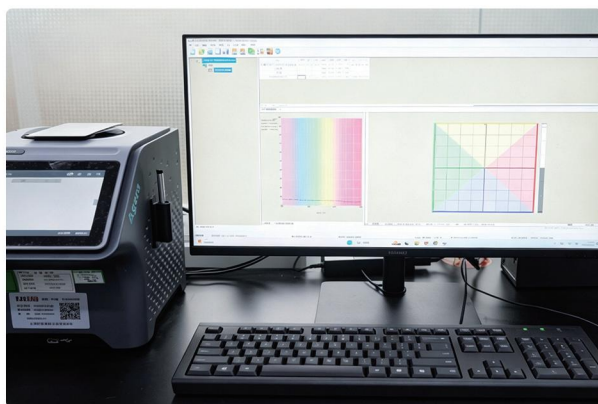
德国BYK光泽度仪

6 色差检测

配备美国HunterLab Agera台式测色仪、MiniScan EZ便携式测色仪，搭建“在线调控+出厂判定”双轨体系；便携设备实时监测、快速调优降废提效，台式仪器完成成品终检，生产至出厂色差检测全程闭环可控。

Color Measurement

Equipped with the HunterLab Agera benchtop spectrophotometer and the MiniScan EZ portable colorimeter, we have established a dual track system for on line adjustment and final release verification. Portable units enable real time monitoring, rapid fine tuning, waste reduction, and efficiency gains, while benchtop instruments perform final product inspection – ensuring closed loop color control throughout the entire process, from production to delivery.



HunterLab Agera台式色差仪



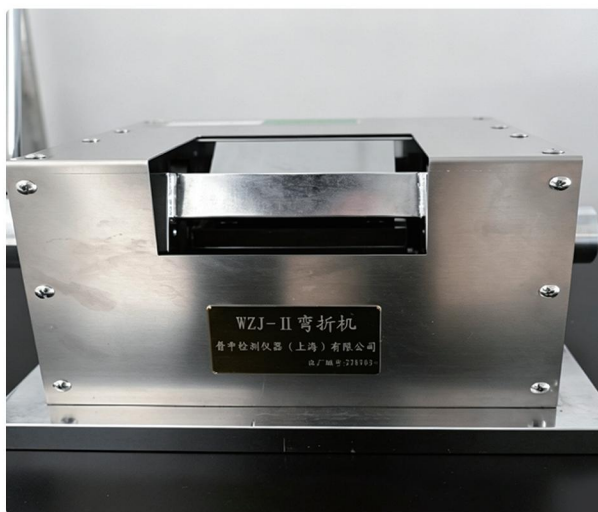
MiniScan EZ便携式色差仪

7 弯曲试验的检测

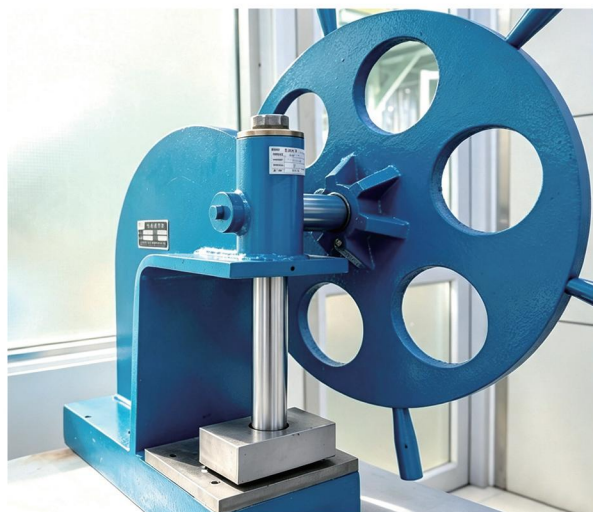
通过试样绕自身弯曲180°/90°弯曲试验评定涂层柔韧与附着力，检验板材变形后涂层完好度，保障产品加工无开裂、剥落问题。

Bend Test

By bending test specimens 180° or 90° around themselves, we evaluate coating flexibility and adhesion, and inspect coating integrity after deformation – ensuring crack free and peel free performance during subsequent processing.



WZJ-弯折机



压平仪

8 反向冲击试验的检测

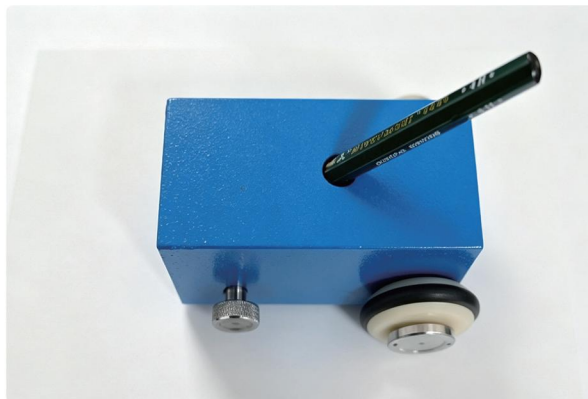
依据GB/T13448开展试验，通过重锤自由落体冲击试样，检测彩涂板涂层抗冲击、抗开裂、抗剥落性能，保障产品受瞬时外力冲击后涂层完好稳定。

Reverse Impact Test

Conducted in accordance with GB/T13448, using a falling weight to impact the specimen – evaluating the coating's resistance to impact, cracking, and peeling. This ensures the coating remains intact and stable even under sudden external force, safeguarding product performance during real world service.



反向冲击仪



铅笔硬度计

9 铅笔硬度试验的检测

采用梯度硬度铅笔划测试验，检测彩涂板涂层抗划伤、耐磨损性能，精准判定涂层硬度等级，让产品在运输、安装及使用过程中可抵御日常轻微刮擦。

Pencil Hardness Test

Using graded hardness pencils, we perform scratch tests to evaluate the coating's scratch resistance and abrasion resistance, precisely determining its hardness grade. This ensures that the product can withstand minor scratches during transportation, installation, and everyday use.

10 耐有机溶剂试验的检测

采用丁酮（MEK）反复擦拭试验，检测彩涂板涂层固化程度与耐溶剂性能，判定涂层固化质量，确保产品在加工、仓储、运输及使用过程中，接触溶剂无软化、无溶胀、无破损。

Solvent Resistance Test

Performed using MEK (methyl ethyl ketone) double rub tests to evaluate the degree of cure and solvent resistance of the coating. This determines curing quality, ensuring that the product – during processing, storage, transport, and application – experiences no softening, swelling, or damage when exposed to solvents.



耐溶剂擦拭仪



划格仪

11 划格试验的检测

通过棋盘网格切割与胶带撕拉试验，检测彩涂板涂层与基板的附着强度，精准判定附着力等级，杜绝产品在加工、堆垛、使用过程中涂层起皮、剥落问题。

Cross-Cut Test

Using a cross hatch grid cutting and tape pull method, we assess the adhesion strength between the color coated steel and the substrate, precisely determining the adhesion rating. This guarantees no peeling or flaking during processing, stacking, or end use service.

12 杯突试验的检测

采用标准杯突试验，以冲头恒速顶出试样模拟板材拉伸变形工况，检测涂层大变形状态下抗开裂、抗脱落性能，保障产品深冲、拉伸等成型加工过程中涂层完整不脱落。

Cupping Test

Using a standardized cupping test, a punch advances at constant speed to simulate tensile deformation conditions of the sheet. This evaluates the coating's resistance to cracking and peeling under large deformation, guaranteeing coating integrity during deep drawing, stretching, and other forming processes.



自动杯突仪



表面电阻率仪

13 表面电阻率的检测

采用表面电阻率试验，精准测定彩涂板表面电阻值，核验涂层抗静电稳定性，保障产品在电子厂房、洁净车间、易燃易爆等特殊场景中有效疏导静电，规避静电积累引发的安全隐患。

Surface Resistivity Measurement

Using surface resistivity testing, we accurately determine the electrical resistance of the color coated steel verifying the coating's anti static stability. This ensures reliable static dissipation in sensitive environments such as electronics plants, clean rooms, and flammable or explosive sites – effectively eliminating safety risks associated with static charge accumulation.

14 耐中性盐雾试验

采用中性盐雾试验评价彩涂板耐腐蚀性能，将试样置于氯化钠盐雾环境定时测试，评定表面起泡、锈蚀及腐蚀蔓延

延等级，验证涂层在海洋大气、潮湿、户外等腐蚀工况下的防护能力，实现产品长期使用不褪色、不失光、不粉化。

Neutral Salt Spray Test

We conduct neutral salt spray testing to evaluate the corrosion resistance of color coated steel. Specimens are exposed to a controlled sodium chloride fog environment over timed intervals, and graded for blistering, rusting, and creepage from scribe. This verifies the coating's protective performance under aggressive conditions such as marine atmospheres, high humidity, and outdoor environments, ensuring long-term performance without fading, loss of gloss, or chalking.



15 紫外灯加速老化试验

采用紫外灯加速老化试验，将试样置于紫外光照与凝露环境循环测试，评定涂层失光、色差、粉化等老化指标，验证产品在户外光照、温差、潮湿环境下的耐候耐久性能，实现产品长期使用不褪色、不失光、不粉化。

UV Accelerated Aging Test

Specimens are subjected to cyclic exposure to UV light and condensation, evaluating aging indicators such as loss of gloss, color difference, and chalking. This confirms the product's weatherability and durability under outdoor sunlight, temperature fluctuations, and high humidity – ensuring long term performance with no fading, no loss of gloss, and no chalking.



紫外耐候气候测试仪



耐化学品试验

16 耐化学品试验

采用耐化学品试验，通过酸碱等化学介质接触测试，评定涂层色差、光泽变化、起泡及脱落情况，验证涂层在化工、工业污染、食品加工、日常清洁场景的化学稳定性，规避产品使用过程中出现化学侵蚀、变色、起泡、脱落缺陷。

Chemical Resistance Test

Through exposure to acidic, alkaline, and other chemical media, we evaluate color difference, gloss change, blistering, and peeling of the coating. This verifies chemical stability in chemical plant environments, industrial pollution, food processing, and routine cleaning scenarios – effectively preventing chemical attack, discoloration, blistering, and peeling during product service.

17 耐干热试验

采用耐干热试验，通过高温烘烤老化测试，评定涂层失光、变色、开裂、脱落等性能变化，验证涂层高温环境下的热稳定性，保障产品在高温加工及使用工况中性能稳定、不老失效。

Dry Heat Resistance Test

Through high temperature baking aging tests, we evaluate changes in gloss, color, cracking, and peeling of the coating. This verifies thermal stability under elevated temperatures, ensuring consistent performance without aging or failure during high temperature processing and in service conditions.



高温干燥箱



恒温恒湿试验箱

18 耐湿热试验

采用耐湿热试验，通过恒温恒湿环境加速老化测试，模拟高温高湿使用工况，检测涂层抗老化、抗起泡、抗脱落性能，适配产品在热带区域、雨季、高湿车间等潮湿场景的长期稳定使用需求。

Damp Heat Resistance Test

This test performs accelerated aging in a constant temperature and humidity chamber, simulating high temperature, high humidity service conditions. It assesses the coating's resistance to aging, blistering, and peeling, ensuring long term stability in tropical regions, rainy seasons, high humidity workshops, and other moist environments.

工程案例篇

山河落地·鉴证敬业澜

Landmark Projects – Real World Proof of
Jingye Luster

河北伟银物流公转铁项目

Hebei Weiyin Logistics "Road-to-Rail" Transfer Project

01

📍 河北石家庄井陘县 ㊦ 建筑面积9万㎡

▶ 用材：TDC51D+AZ180（PVDF）屋面板JY006银灰、墙面板JY095云白

▶ 工况严苛复杂：项目为重点货运枢纽工程，紧邻铁路装卸区，场区煤粉扬尘堆积严重，煤炭含硫成分遇潮形成腐蚀性凝露。叠加昼夜大温差结露、机车尾气侵蚀、雨雪日晒交替及粉尘摩擦老化，常规彩板易发黑粉化、锈穿漏水。

▶ 氟碳高强抗腐：采用AZ180高克重镀锌铝锌氟碳彩涂板，加厚基材筑牢防腐基底，依托氟碳面漆耐化学、耐紫外、耐粉尘腐蚀优势，针对性解决煤粉附着、硫化水汽侵蚀、户外老化等难题。板材加工性能稳定，适配仓储围护施工，长效抵御物流储运复杂工况，延长建筑使用寿命。

Location: Jingxing County, Shijiazhuang, Hebei

Floor Area: 90,000 m²

Material: TDC51D+AZ180 (PVDF) roof panels – JY006 Silver Grey; wall panels – JY095 Cloud White

Challenging Service Environment

As a key freight hub adjacent to railway loading zones, the site suffers from heavy accumulation of coal dust and airborne particulates. The sulfur bearing coal dust, when exposed to moisture, forms aggressive corrosive condensation. Combined with extreme day night temperature swings, locomotive exhaust fumes, alternating rain/snow and sun exposure, as well as abrasive dust induced aging, conventional coated steel are prone to blackening, chalking, rust through, and leakage.

Customised PVDF High Strength Corrosion Protection

Our AZ180 high coating weight aluminum zinc PVDF color coated steel feature a thickened substrate for a robust anti corrosion foundation. The fluorocarbon topcoat delivers outstanding chemical resistance, UV protection, and dust resistance – specifically addressing challenges such as coal dust adhesion, sulfurous moisture corrosion, and outdoor aging. With stable processing performance ideally suited for storage enclosure construction, the material ensures long term durability under complex logistics conditions, significantly extending the service life of the building.



河北省国际陆港项目

Hebei International Inland Port Project

02

📍 河北石家庄高邑县 🏗️ 建筑面积12万m²

▶ 用材：TDC51D+AZ、TS350GD+AZ150 (HDP) 屋面板JY091天灰、墙面板JY094雪白

▶ 多介质侵蚀：陆港为核心物流集散枢纽，车流、装卸作业密集，场地粉尘量大、昼夜温差悬殊易产生屋面凝露。搭配雨雪日晒交替及各类储运腐蚀介质，普通彩涂板易失光老化、基材锈蚀破损。

▶ 高强耐候防护：甄选TS350GD高强度150g镀铝锌高耐候彩涂板，高强基材满足吊装、折弯施工力学需求，高锌层构建长效防腐基底。搭配高耐候面漆，针对性攻克盐雾、紫外老化、粉尘积附、温变结露四大腐蚀难题，性能稳定，适配大型陆港堆场、库房围护建设。

Location: Gaoyi County, Shijiazhuang, Hebei

Floor Area: 120,000 m²

Material: TDC51D+AZ, TS350GD+AZ150 (HDP) roof panels – JY091 Sky Grey; wall panels – JY094 Snow White

Multi Media Corrosive Environment

As a core logistics hub with intensive traffic and loading/unloading operations, the site generates substantial dust and experiences wide temperature swings that cause roof condensation. Combined with alternating rain, snow, and sun exposure, along with various corrosive agents from stored goods, makes conventional color coated steel prone to gloss loss, aging, rust, and damage.

High Strength Weatherable Protection

We have selected TS350GD high strength AZ150 aluminum zinc color coated steel with high durability HDP finish. The high strength substrate meets the mechanical demands of lifting, bending, and other construction processes, while the heavy zinc coating provides a long term anti corrosion foundation. Paired with a high durability topcoat, the material effectively tackles four major corrosion challenges – salt spray, UV aging, dust accumulation, and condensation from temperature changes. Stable and reliable, it is ideally suited for large scale port yards and warehouse enclosures.



新疆喀什棉花产业科技示范区棉纺项目

Cotton Spinning Project of Kashgar Cotton Industry Science & Technology Demonstration Zone, Xinjiang

03

📍 新疆喀什地区 📐 使用面积5.4万m²

▶ 用材：TS350GD+AZ 150g (HDP) 屋面板蓝灰、墙面板银灰

▶ 工况严苛复杂：项目为重点棉纺工程。喀什地区昼夜大温差结露、雨雪日晒交替及粉尘、沙尘摩擦老化，常规彩板易发黑粉化、锈穿漏水。

▶ 高耐候超强抗腐：采用TS350GD，AZ150高克重镀锌高耐候彩涂板，基板性能加强，更好的适用喀什地区风沙大、强紫外线的地域特性。针对性解决耐候性、耐紫外、户外老化等难题。板材加工性能稳定，适配特殊环境工业仓储要求，长效抵御物流储运复杂工况，延长建筑使用寿命。

Location: Kashgar Prefecture, Xinjiang

Practical floor area: 54,000 m²

Materials : TS350GD+AZ 150g (HDP), blue-grey roof panels & silver-grey wall panels

Severe & Complex Service Conditions

This project is a key cotton spinning industrial facility. Kashgar features extreme day-night temperature differences which can easily cause condensation. Combined with alternating rain, snow and sunlight exposure, as well as long-term abrasion from dust and sand, conventional color coated steel sheets tend to suffer black discoloration, chalking, rust perforation and subsequent water leakage.

Superior Weather Resistance & Outstanding Anti-Corrosion Performance

We adopt TS350GD AZ150 heavy-weight Aluminum-zinc coated high weather resistance HDP color coated sheets. The substrate boasts enhanced mechanical properties, perfectly matching Kashgar's harsh local conditions including frequent sandstorms and intense UV radiation, effectively solving problems of outdoor weathering, UV resistance and aging. The sheets deliver stable forming performance to meet the requirements of industrial plants and warehouses under extreme climates. They can withstand complicated conditions during logistics and storage, providing long-term protection and greatly extending the service life of buildings.



河北交投物流煤炭储运项目

Hebei Jiaotou Logistics Coal Storage & Transportation Facility

04

📍 河北石家庄井陘县 🏠 建筑面积46832m²

▶ 用材：TDC51D+AZ150 (PVDF、HDP) 屋面板、墙面板JY082白灰

▶ 煤储多重腐蚀：煤炭储运库区煤粉弥漫堆积，含硫介质遇潮形成腐蚀性凝水，装卸扬尘污染严重。围护板材长期直面风霜雨雪、紫外暴晒与温差交变工况，普通彩板极易粉化发黑、锈蚀穿孔，项目同时对防腐与性价比要求严苛。

▶ 高性价比优选：优选150g高克重镀锌铝锌氟碳、高耐候彩涂板，高锌层构筑稳固防腐基底，氟碳面漆耐酸碱、抗粉尘、耐候抗老化，精准解决硫化凝露、煤粉侵蚀、户外老化痛点。依托钢厂一体化生产优势，产品性能稳定、加工性优良，兼顾高品质与高性价比，适配大型煤储园区建设。

Location: Jingxing County, Shijiazhuang, Hebei

Floor Area: 46,832 m²

Material: TDC51D+AZ150 (PVDF, HDP) roof and wall panels – JY082 Off White

Multiple Corrosion Challenges in Coal Storage

In this coal storage and transshipment hub, fine coal dust permeates the air and settles on surfaces. Sulfur bearing particulates, when combined with moisture, form aggressive corrosive condensation. Loading and unloading operations generate heavy dust pollution. Enclosure panels are exposed to wind, frost, rain, snow, intense UV radiation, and dramatic temperature fluctuations. Conventional color coated steel are highly susceptible to chalking, blackening, rusting, and perforation. The project demands both exceptional corrosion resistance and cost effectiveness.

Cost Effective Premium Solution

We selected 150 g/m² high coating weight aluminum zinc color coated steel with PVDF and HDP finishes. The heavy zinc layer provides a robust anti corrosion foundation, while the fluorocarbon and high durability topcoats offer outstanding resistance to acids, alkalis, dust, weathering, and aging – precisely addressing the critical issues of sulfurous condensation, coal dust erosion, and outdoor degradation. Leveraging the integrated production advantages of our steel mill, the product delivers consistent quality and excellent formability, combining high performance with superior cost effectiveness – making it the ideal choice for large scale coal storage facilities.



轲晖食品牛羊屠宰厂项目

Kehui Food Cattle & Sheep Slaughterhouse

05

📍 河北石家庄平山县 🏗️ 建筑面积35000m²

▶ 用材: TDC51D+AZ120 (HDP) 屋面板、墙面板JY004纯白

▶ 屠宰高湿腐蚀: 屠宰厂区常年高湿多水汽, 清洗作业产生大量含油脂、酸碱的腐蚀性雾气, 水汽有机质易附着板面。叠加户外日晒雨淋、昼夜大温差环境, 普通彩涂板易起泡脱落、基板锈蚀, 工况腐蚀性极强。

▶ 专用耐污耐腐: 采用120g镀铝锌基板搭配高耐候面漆彩涂板, 基材筑牢防腐基底, 专用涂层耐酸碱、抗油污、抗有机质侵蚀。有效解决屠宰车间高湿凝露、有机酸腐蚀、户外紫外老化等难题, 板材柔韧性佳、施工便捷, 适配食品屠宰厂区特殊围护需求。

Location: Pingshan County, Shijiazhuang, Hebei

Floor Area: 35,000 m²

Material: TDC51D+AZ120 (HDP) roof and wall panels – JY004 Pure White

High Humidity Corrosive Environment

The slaughterhouse operates under year round high humidity and heavy moisture. Cleaning operations generate corrosive mists laden with grease, acids, and alkalis, while organic residues tend to adhere to panel surfaces. Combined with outdoor exposure to sun, rain, and drastic temperature swings between day and night, conventional color coated steel are prone to blistering, peeling, and substrate rusting – making this an extremely aggressive environment.

Specialised Stain & Corrosion Resistance

We have selected AZ120 aluminum zinc color coated steel with a high durability HDP topcoat. The zinc coated substrate provides a solid anti corrosion base, while the specially formulated coating offers excellent resistance to acids, alkalis, grease, and organic attack. This effectively addresses the challenges of high humidity condensation, organic acid corrosion, and UV aging in slaughterhouse conditions. The material also features excellent flexibility and easy fabrication, perfectly suited to the unique enclosure requirements of food processing facilities.





服务订货篇

全链路服务，安心数十年

Chapter of Service & Ordering
Full-cycle Integrated Services · Decades of Assured
Peace of Mind

📋 订货流程

专属技术团队全程对接，需求沟通、方案定制、生产管控、物流配送、售后保障一站式闭环服务，流程规范、交付高效。

Ordering Process

Our dedicated technical team provides full cycle support – from requirement consultation, customised solution design, and production control, to logistics delivery and after sales service – delivering a one stop closed loop service with standardized procedures and efficient execution.



扫码关注官方视频号



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🔧 选材准则

结合应用环境、设计寿命与加工需求，科学搭配基板、镀层、涂层、精准选型，兼顾使用性能与综合成本。

Material Selection Guidelines

Based on application environment, design service life, and processing requirements, we scientifically combine substrate, coating, and paint systems to achieve precise material selection – striking the optimal balance between performance and overall cost.

梯度质保

依据产品品类提供20—45年分级质保，正常使用工况下，保障涂层完好、板材无锈穿。（在标准工况下，为客户筑牢漆膜完整性与防腐蚀穿孔的双重保障。）

Graded Warranty
We offer tiered warranties ranging from 20 to 45 years, tailored to product categories. Under normal service conditions, we guarantee coating integrity and zero rust through. (Under standard operating conditions, we provide a dual guarantee – intact film performance and perforation free corrosion protection – ensuring lasting reliability for our customers.)



电子标牌溯源系统

实行一板一码、一卷一标，扫码即可查阅原料批次、工艺参数、质检报告、质保等级等全链路信息，全程可追溯，品质有据可依。

Digital Traceability System
Each sheet and each coil is assigned a unique QR code – scan to access full lifecycle data, including raw material batches, process parameters, inspection reports, and warranty grade. Fully traceable from production to delivery, ensuring quality backed by verifiable data.

 敬业彩涂		河北敬业高品钢科技有限公司			
HEBEI JINGYE HIGH QUALITY STEEL TECHNOLOGY CO., LTD					
彩色涂层钢卷 COLOR COATED STEEL COIL					
钢卷号 COIL NUMBER		L62600048710		质量等级 QUALITY GRADE	
				一级	
订货单位 CUSTOMER		敬业钢铁有限公司		收货单位 PURCHASER	
执行标准 STANDARD		GB/T 12754-2019		净重 (吨) NET WEIGHT(T)	
				5.194t	
颜色 COLOR		高光白-HHM/9018-BQ		毛重 (吨) GROSS WEIGHT(T)	
				5.242t	
涂料种类 PAINT TYPE		聚酯/环氧聚酯		规格 SPECIFICATION(mm)	
				0.6*1250 长度(943.112m)	
包装代码 PACKAGING CODE		JYBZ-13 镀层量代号(克/平方米) COATINGMASS(g/m²)		Z50 生产日期 DATE OF PRODUCTION	
				2026/05/28	
地址: 河北省平山县敬业集团钢材深加工园区 邮编: 050400 电话: 0311-82888999 传真: 0311-82888999					
服务热线: 0311-82888999 网站: http://www.hbjyjt.com					
ADD:Nandian Town Jingye group yard, Pingshan County, Shijiazhuang City, Hebei Province					
TEL:0311-82888999 FAX:0311-82888999 Hot Line:0311-82888999					

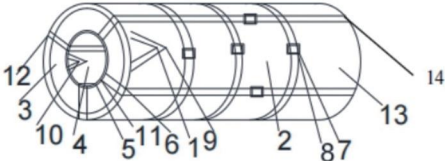


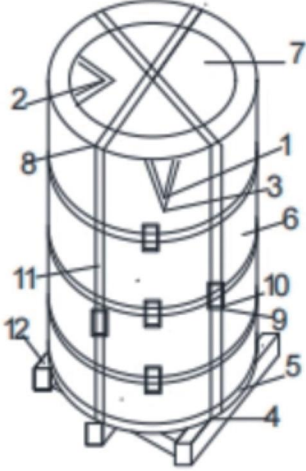
匠心包装 守护精品

敬业高品钢彩涂板搭载高标准精包装体系，持久守护板面品质，有效压降损耗与返工成本，拉长产品使用周期，稳固项目口碑，成就数十年安心工程。

Crafted Packaging, Preserving Excellence

Jingye color coated steel are delivered with a premium packaging system – safeguarding surface quality, reducing material loss and rework costs, extending product service life, and reinforcing project reputation – ensuring decades of worry free performance.

包装类型及代码 Packaging Type and Code	精包 (JYBZ-15) Premium Packaging (JYBZ-15)
图例 Legend	
材料需求 Materials Required	1.外防锈纸 2.外周镀锌护板 3.镀锌端护板 4.内周镀锌护板 5.镀锌内护角 6.镀锌外护角 7.钢制锁扣 8.塑料垫片（除护角外每条捆带都有） 9.塑料薄膜 10.防锈内芯纸 11.纸内护角 12.纸外护角 13.外周瓦楞纸护板 14.捆带（周3径4） 1.Outer rustproof paper 2.Peripheral galvanized guard plate 3.Galvanized end guard plate 4.Inner peripheral galvanized guard plate 5.Galvanized inner corner protector 6.Galvanized outer corner protector 7.Steel locking buckle 8.Plastic washers (applied under each strap except at corner protectors) 9.Plastic film 10.Inner rustproof core paper 11.Paper inner corner protector 12.Paper outer corner protector 13.Peripheral corrugated paper guard board 14.Strapping (3 circumferential, 4 radial)
适用范围 Application Scope	1.适用于所有厚度的普通产品； 2.国内以水陆联运方式运输的产品 3.出口产品。 1.Suitable for all thicknesses of standard products. 2.Products transported via intermodal transport (water and land) within China. 3.Export products.
装载事项 Loading Instructions	1.用吊具装载装卸，吊具与产品间接触加防护措施。 2.单层装载。建议直接运至用户仓储场所，无专用吊具不要二次倒运。 3.宜做好防水措施。 1.Use lifting equipment for loading and unloading; apply protective padding at all contact points between the slings and the product. 2.Singlelayer loading only. It is recommended to deliver directly to the user's storage facility; avoid secondary handling without proper lifting gear. 3.Waterproof measures should be taken during transport and storage.

包装类型及代码 Packaging Type and Code	精包（JYBZ-16） 
材料需求 Packaging Material List	1.外防锈纸 2.防锈内芯纸 3.用塑料薄膜全封闭包裹 4.底部加镀锌外护角5.底部加镀锌端护板6.外周加镀锌板7.内芯镀锌板8.顶部镀锌外护角 9.钢制锁扣 10.塑料垫片（除护角外每条捆带都有） 11.捆带（十字2道、周向3道） 12.熏蒸立式木托 1.Outer rustproof paper 2.Inner rustproof core paper 3.Full sealed wrapping with plastic film 4.Galvanized outer corner protectors (bottom) 5.Galvanized end guard plates (bottom) 6.Peripheral galvanized sheet wrapping 7.Inner galvanized core plate 8.Galvanized outer corner protectors (top) 9.Steel locking buckles 10.Plastic washers (applied under each strap except at corner protectors) 11.Strapping – 2 crosswise bands and 3 circumferential bands 12.Fumigated vertical wooden pallets
适用范围 Application Scope	需要立式包装普通客户。 Suitable for products requiring vertical packaging for general customers.
装载事项 Loading Instructions	1.使用专用吊具装载装卸，吊具与产品间接触加防护措施。 2.单层装载。建议直接运至用户仓储场所，无专用吊具不要二次倒运。 3.宜做好防水措施。 1.Use designated lifting equipment for loading and unloading; apply protective padding at all contact points between the slings and the product. 2.Singlelayer loading only. It is recommended to deliver directly to the user’ s storage facility; avoid secondary handling without proper lifting gear. 3.Waterproof measures should be taken during transport and storage.

 定制钢种

产品品类 Product Type	产品名称 Product Name	牌号 Grade	屈服强度/MPa Yield Strength/MPa	抗拉强度/MPa Tensile Strength/MPa	断后伸长率/% Elongation After Fracture/%
镀锌 Galvanized	定制钢 Custom Steel	DX51D+Z	/	270-500	≥22
	建筑高强度 High Strength Construction Steel	S250GD+Z	≥250	≥330	≥19
		S280GD+Z	≥280	≥360	≥18
		S300GD+Z	≥300	≥370	≥18
		S320GD+Z	≥320	≥390	≥17
		S350GD+Z	≥350	≥420	≥16
		S400GD+Z	≥400	/	/
		S450GD+Z	≥420	≥480	≥15
		S550GD+Z	≥550	≥560	/
	家电板 Appliance steel	DX51D+Z-D	≤270	≥270	≥32
		DX51D+Z-BM	140-250	270-420	≥32
		DX51D+Z-JD	140-250	270-420	≥32
		DX51D+Z-MJ	140-220	270-420	≥35
		DX52D+Z-JD	140-220	270-420	≥35
		DX53D+Z-JD	130-190	260-380	≥42
	汽车钢 Automotive Steel	DX51D+Z-QC	140-250	270-420	≥32
		DX52D+Z-QC	140-220	270-420	≥35
		DX53D+Z-QC	130-190	260-380	≥42
		DX54D+Z-QC	≤170	260-350	≥43
		DX56D+Z-QC	≤160	260-350	≥44
		HC180YD+Z	180-240	330-390	≥34
		HC220YD+Z	220-280	340-420	≥32
		HC260YD+Z	260-320	380-440	≥30
		HC260LAD+Z	260-330	350-430	≥26
		HC300LAD+Z	300-380	350-430	≥23
		HC340LAD+Z	340-420	410-510	≥21
		HC380LAD+Z	380-480	440-560	≥19
		HC420LAD+Z	420-520	470-590	≥17
		HC340/590DPD+Z	340-430	≥590	≥20
镀铝锌 Galvalume	定制钢 Custom Steel	DX51D+AZ	≤360	270-500	≥25
	建筑高强度 High Strength Construction Steel	S250GD+AZ	≥250	≥330	≥19
		S280GD+AZ	≥280	≥360	≥18
		S300GD+AZ	≥300	≥370	≥18
		S320GD+AZ	≥320	≥390	≥17
		S350GD+AZ	≥350	≥420	≥16
		S400GD+AZ	420-550	450-600	≥16
		S450GD+AZ	≥420	≥480	≥15
		S550GD+AZ	≥550	≥560	/
	家电板 Appliance Steel	DX52D+AZ	140-300	270-420	≥26
		DX53D+AZ	140-260	270-380	≥30

产品品类 Product Type	产品名称 Product Name	牌号 Grade	屈服强度/MPa Yield Strength/MPa	抗拉强度/MPa Tensile Strength/MPa	断后伸长率/% Elongation After Fracture/%
连退 Continuous Annealing	汽车钢 Automotive Steel	HC180Y	180~240	340~400	≥35
		HC220Y	220~280	360~420	≥33
		HC260Y	260~320	380~440	≥31
		170P1	170~260	≥340	≥36
		210P1	210~310	≥390	≥32
		250P1	250~360	≥440	≥30
		CR260LA	260~320	350~420	≥27
		CR300LA	300~370	380~470	≥24
		CR340LA	340~410	410~500	≥22
		CR380LA	380~470	440~570	≥20
		CR420LA	420~510	470~590	≥18
	碳素结构钢 Carbon Structural Steel	JY240ZK	240~360	≥390	≥30
		JY280VK	280~400	≥440	≥27
	建材 Construction Steel	SPCC	≤320	270-410	≥28
	家电板 Appliance Steel	DC01	≤280	270-410	≥30
		DC03	≤190	270-360	≥38
		DC04	≤180	270-340	≥38
罩退 Batch Annealing	建材 Construction Steel	SPCC	≤320	270-410	≥28
	家电板 Appliance Steel	DC01	≤280	270-410	≥30
		DC03	≤190	270-360	≥38
		DC04	≤180	270-340	≥38
	焊丝钢 Welding Wire Steel	JYHS	170-240	280-350	≥44
彩涂 Color Coated Steel	普碳钢 Carbon Steel	Q235	290-330	370-500	≥23
	定制钢 Custom Steel	TDC51D+Z/AZ	/	270-500	≥22
	家电板 Appliance Steel	TDC52D+Z/AZ	140-300	270-420	≥26
		TDC53D+Z/AZ	140-260	270-380	≥30
		TDC54D+Z/AZ	140-220	270-350	≥36
	建筑高强度 High Strength Construction Steel	TS250GD+Z/AZ	≥250	≥330	≥19
		TS280GD+Z/AZ	≥280	≥360	≥18
		TS300GD+Z/AZ	≥300	≥380	≥18
		TS320GD+Z/AZ	≥320	≥390	≥17
		TS350GD+Z/AZ	≥350	≥420	≥16
		TS550GD+Z/AZ	≥550	≥560	/

发展愿景篇

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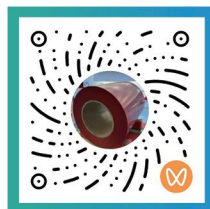
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0311-966666

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<https://www.hbjyjt.com/>



地址 / Address

河北省石家庄市平山县南甸镇敬业集团深加工园区

Jingye Group Deep Processing Industrial Park, Nandian Town,
Pingshan County, Shijiazhuang, Hebei



邮箱 / E-mail

jingye@hbjiyt.com