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China · Shanghai

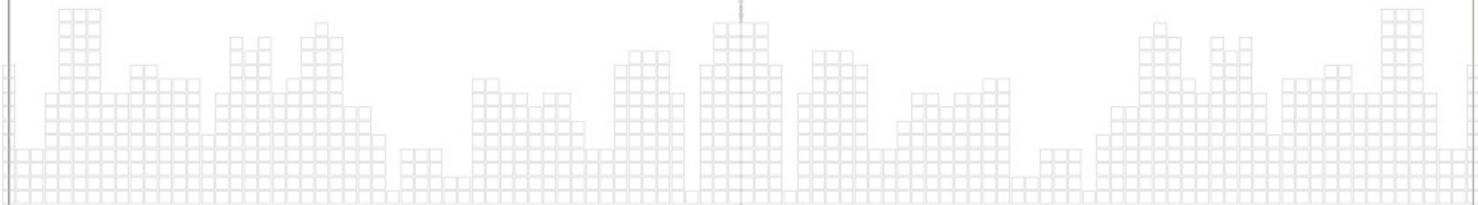
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歐通嘯金
OU TONG XIAO JIN

OU TONG XIAO JIN



XIAOJIN
CONSTRUCTION
Directory 目录

领导致辞



公司简介



组织结构



产品介绍



生产管理



生产工艺



科学检测



应用领域



天道酬勤，欧通健全人终于迎来了今天的真硕硕果。面对现有的成就，欧通健全人未曾沾沾，而是看清楚了日趋激烈的市场竞争。通过近几年来的发展，充分肯定了本企业的潜在能力和发展前景。欧通健全人有信心、有能力做好国内市场，也能做好国际市场，公司已经全方位动员起来，努力展开国际贸易工作。招贤纳士，为更好更快的发展注入新的源头活力，招贤纳士，定能更快地进入国际市场，占有一定之地。雄关漫道真如铁，而今迈步从头越。

历史已经证明，历史必将证明，每一次转折来源于伟大的决策，伟大的决策来源于高瞻远瞩和敏锐的洞察力。“凡事预则立，不预则废”。欧通健全的领导者们站在时代的最峰，用丰富的实战经验与锐利的眼光，迎接不同的新挑战，征服和拓荒未知的领域。公司于2002年11月22日成立，自2013年起年实现销售额30亿元，创造利润超亿元，到中流击水，浪遏飞舟。

不管风吹浪打，胜似闲庭信步。成功并非军突起，更非一蹴而就。而是拼搏与奋斗，温情与汗水的碰撞与交融。经历风雨，终见彩虹。展望未来，一片光明。如今欧通健全公司在杨中宝董事长的带领下，正充满豪情地规划公司愿景：成功铸造中国彩钢领域，集生产、销售、科研为一体，可持续、超常规发展的行业龙头。

我们有个梦，彩涂行业的中国梦：欧通健全人会做得更好，欧通健全的明天会更加美好！

The God always helps those who help themselves. Despite of the brilliant achievements, we never feel complacent but to realize the increasingly fierce market competition. Years of development has fully affirmed and broadcasted the company's potential capacities and development prospects. Boasting strong confidence and ability, it is firmly believed that the company is capable and exerting potential influence in domestic and international markets. The company has been full momentum and more endeavoring to expand its overseas market. Embracing the brilliant and smart has always been our main corporate strategy, which transferring more energy into our development and consolidating our standing in the international market. The way ahead is much challenged but full of chance, yet with firm strides, we shall conquer and prosper. History had proved and shall continue evidencing, every successful transformation comes from great decisions by keen insight. An old say goes, "preparedness ensures success, unpreparedness spells failure". The company management is able to stand on the peak of times, with practical experience and sharp insight, challenging the new difficulties and tame and explore new yield. The company was founded on Nov. 22nd, 2002, and put into official operation in the year of 2014 using 6 unit professional production lines and emerging into the market with confident attitude. The sales amounted to 3 billion accumulating from Year 2013 with taxation over than 100 million. Now the company is striving to create a new era in the current competitive market. However strong it stormy or windy, yet it is still good roaming. Success never comes easy but through continuous struggles, fight, passion and sweat. The beautiful rainbow always emerges after wind and rain.

Approaching into the prospect, a bright future is awaiting for us. Under the leadership of Chairman-Mr.Yang zhongbao with clear and brighter company missions: successfully refresh the color steel industry of China, combining production, sales and R&D , build a leading enterprise with sustained and extraordinary development space, stepping towards the goal of the "Giant Vessel" of color steel industry Empire.

A dream we yet holding has been the dream of elite in this Chinese coating steel industry.
A Better performance for the employee, and ever brighter future for the OutongXiaojin company!

ACCUMULATE STRENGTH, SPUR WITH great-leap-forward development

蓄势，飞跃发展

过往的岁月是途，
记录着黄金曾经的荣耀与梦想；
新的起点新的超越，
轨迹见证着黄金未来的辉煌与灿烂。

The footsteps of time,
Had recorded the dreams and honours of Xiaojin.
New starting point and new development,
Gives promise of Xiaojin's splendid future.





质量第一·国际品牌·满足客户·增值服务
QUALITY FIRST · INTERNATIONAL BRAND
SATISFY CUSTOMER · VALUE-ADDED SERVICE

INTRODUCTION OF XIAOJIN

啸金实业·公司简介

天上七彩霓虹，人间欧通啸金。上海欧通彩涂有限公司隶属中国·欧通集团，上海啸金实业有限公司为国营公司，公司地处商贾云集，万流归海的华东三角洲的前沿上海嘉定工业园。中国第一条高速公路——沪嘉（沪）高速公路朱桥出口处，占地 4万平方米，是专业生产彩色钢板的股份制企业。江苏欧通新材料有限公司位于著名的洪泽湖南岸，有着龙虾之都美称的盱眙经济开发区。公司成立于2008年6月，注册资金2200万元，占地面积14万平方米，建筑面积5.5万平方米，是专业生产彩涂钢及特种钢的股份制企业。

公司的彩色涂层全自动流水线总计六条，年产量40万吨。是国内目前最先进的第二代（2C/1B）卷材连续涂层线。其传动系统采用美国CNSE公司的最新研发的流水电控装置，全线采用PLC计算机自动控制，有效地保证涂层的均匀性和稳定性。

公司以优质的热镀锌板为基板，用精良的设备，先进的工艺、科学的管理，生产高品质的彩色钢板。品种有：厚0.16-1.00mm，宽度800~1250mm。产品使用涂料是与宝钢和同厂家的涂料——贝科涂料，品种有氟碳、改性聚酯、氟碳、真耐候等。产品广泛用于建筑、装饰、家电、包装等行业。

销售市场由原来的单一东南亚市场，逐渐地拓展到了中东、俄罗斯、欧洲以及中南美市场，欧洲的一些国家。根据不同客户的要求，我们可提供各种商标、欧标、日标等国际标准的产品出口。

基于公平合作、尊重声誉、质量第一的原则赢得了国外客户的信任，并与他们建立了长期合作关系。有前途的“质量精益求精，客户尊贵利益”，以最高的商业信誉，欧通啸金，携手共进，同舟共济，天下同心。我们期待与所有朋友一起合作，创造更加广阔的辉煌的繁盛的未来！

Rainbow lights in the sky, just like OutongXiaojin on the earth. Shanghai OutongXiaojin is subject to China - Europe group, Shanghai Xiaojin Industrial Co.,Ltd is International Trading Company. The company is located in the merchant gathering thousands of flows to the forefront of the Delta in east China, Shanghai Jading Industrial Park. It is located at the Zhuqiao exit of the Shanghai Jading express way, which is the first express way in china. It covers 40, 000 square meters, is a joint - stock enterprise specialized in producing color steel plate.Jiangsu Outong new materials technology company located in South Bend of Hongze Lake, Economic Development Zone with a lobster capital of the laudatory name. the company was founded on Nov.22nd,2002, the registered capital of RMB 22 million , covers an area of 140,000 square meters, building area of 55,000 square meters. Specializing in the production of color coated in coils and special steel joints - stock company.

Automatic color coating lines of the company totally are six, with annual output of 400,000 MT due to the most advanced and most modern of the second painting (2c/1b) coil coating line. Its transmission system using CNSE company's latest research and development of water power control devices, full line adopts PLC automatic control, effectively ensure the homogeneity and stability of the coating.

Contribute for the quality of Hot - Dip galvanized sheet as substrate, with excellent equipment, advanced technology, scientific management, producing high quality color steel plate, varieties as below : thick 0.16~1.00mm, the width 800~1250mm, using the same painting as Beiketai manufacturers — Biebek paint, a variety of PE,SMP,PVDF and HDPE etc. Products are widely used in construction, decoration, household appliances, packaging and other industries.

The markets from a single East Asian market gradually extend to Middle East,Russia,European,Middle-South American markets, as well as some countries in Africa. According to the different country requirements we can supply the American standard, European-standard, Japanese and other foreign standards to export.

Based on the attitude of fair cooperation, reputation-based, quality first, we have won the trust of foreign customers, and established a long-term cooperation relationships with them. Promising "proficient in quality, benefits for customers" and taking the highest business reputation,OutongXiaojin, Advancing together hand in hand. We are looking forward to a broad, splendid and prosperous future with all friends cooperating altogether.





核心文化：严格认真的精神，学习与创新的意愿；争创国际一流品牌的目标。
Thorough Spirit, Employing Research and Innovation as the Driving Force Towards Creating a Global Leading Brand.

企业愿景：创造涂料行业一流品牌，建百年企业，提升员工价值，回馈社会。
Culture>To Create a First-Class, Global Color-Coated Sheet Brand. To Build a Lasting Enterprise. To Enhance Team Value"’s and Give Back to the Community.

企业精神：团结、主动、信任、高效。
SPIRIT:United, Active, Trustworthy, Efficient.

管理理念：管理讲制度，工作讲程序，办事讲原则。
MANAGEMENT CONCEPT:Management Furthers the System. Activity Furthers the Goal. Dealings Furthers the Principles.

工作理念：精细、精准、精品。
WORK STANDARD:Detailed, Accurate, Competitive.

质量标准：质量稳定无缺陷。
QUALITY STANDARD:Steady quality & zero defects.

成本理念：一次做对是降低成本的方法，提高质量是降低成本的捷径，技术创新是降低成本的动力。
COST CONCEPT: Getting it right the first time is key to reducing costs; Improving quality is a fast-track to reducing costs; Technological innovation is the driving force behind reducing costs.

创新理念：满足并引领市场需求，是企业生存和发展的不竭动力。
INNOVATIVE STANDARD:Satisfy and Drive the Market, Furthering the Company's Position and Development.

执行理念：有诺必践，马上行动，用结果说话，做负责的人。
EXECUTION STANDARD:Fulfilling Promises. Acting Without Hesitation. Communicating Accurately. Upholding Responsibilities.

服务理念：周全快捷，服务增值。
SERVICE STANDARD:Complete, handy, value-added.

工作方法：请示工作没方案，汇报工作没结果，检讨工作没流程。
WORK METHOD:When Asking Instructions, Follow the Program; When Accounting for Work, Follow the Results; When Criticizing Work, Follow the Course.

质量理念：细节决定成败，工作质量决定产品质量；100-1=0。
QUALITY CONCEPT:Success Lies in the Details; Workmanship Determines Quality, 100-1=0.

人才理念：员工是企业的最大财富，有为才有位，有位更有为；德才兼备，品德第一，相信人，值得相信。
TALENT CONCEPT:Team First, Profit Second. Fulfilling Expectations Leads to Promotion, Promotion Leads to Greater Expectations. Personal and Professional Integrity. Trust Others, and Gain Others' Trust.

快乐理念：真实、简单、自然；肯定、鞭策、尊重。
THE SECRETS OF HAPPINESS:Sincerity, Simplicity, Nature; Affirmativeness, Motivation, Respect.

A CULTURAL INTERPRETATION OF XIAOJIN COMPANY

啸金文化解读



PHILOSOPHY AND BELIEF OF XIAOJIN

啸金人的哲学与信仰

Why the ideas classical,
because the formation of a system—that is culture.
building the thought order.
构建成了一个系统即文化。
理性人的思想在系统中诞生。
enrich Xiaojin's cultural,
啸金品牌在文化中丰富。
will help enhance Xiaojin's brand.



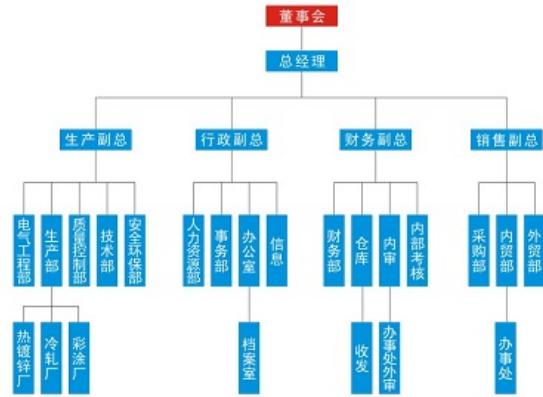
ORGANIZATION STRUCTURE 组织架构

组织架构的作用就是分散而孤立的力量集合成集体的力量，在员工内心深处激发起企业的向心力、凝聚力和归属感。创造一种和谐的积极向上的企业文化氛围。架构内部互通有无，单向统一指挥调度，严密简化而富有弹性的形式才能适应企业发展的需要。

The role of the organizational structure is to join the decentralized force together to be enormous strength. So as to inspire the corporate centripetal force as well as the sense of cohesion and belonging which can create a harmonious and positive enterprise culture atmosphere. Interior two-way communication, one-way unified command, find a well-organized structure to advance to a new state of orderliness.

一个管理规范、结构完善的组织，是促进企业和谐发展的利器。各个部门的衔接就像齿轮运转的过程，相对独立却又凸相错位而行，独立的个体结合正常运转，从而使企业的资源配置最优化，运营效率最大化，协同作战有章可循，团队更具凝聚力，企业文化更加生动人性化。

The standard management and perfect structure of the company are the unique magic weapon in company's successful. Each department like a toothed wheel, having gears engaged. Everyone's talents will shine at work. Optimize the resource configuration of corporation, maximize the profit. Diligent work with team spirit, give up the corporate culture.





BRIEF INTRODUCTION OF COLOR STEEL 彩涂板简介

在钢板上涂有有机涂料，涂料可以有各种不同的颜色，彩色涂层钢板由此而得名。简称彩板，也称有机涂层钢板。由于彩色涂层钢板是在钢板加工程前先涂上涂料，在国外也称为预涂钢板。彩涂层有机涂料起了覆盖隔离作用，可防止钢板生锈，使寿命更长。

彩涂层的基本板有冷轧基板、热镀锌基板、电镀锌基板、热镀铝锌基板、彩涂层的品种按种类可以分为：聚酯、硅改性聚酯、偏聚

氯乙烯、高耐久性聚酯等。

生产工艺从“一涂”发展到了“二涂一烘、二涂二烘、也出现了三涂三烘的工艺。

彩涂层的颜色可以在很多种，如红色、黄色、深天蓝、海蓝、鲜红、砖红、象牙、米黄等。

彩涂层的表面状态可分为正常涂层板、压花板、印花板。

彩涂层市场用途主要分为建筑、家电和交通运输等。

Prepainted steel sheet is coated with organic layer, which provides higher anti-corrosion property and a longer lifespan than that of galvanized steel sheets.

The base metals for prepainted steel sheet consist of cold-rolled, HDG electro-galvanized and hot-dip alu-zinc coated steel sheet. They can also be classified into groups as follows: polyester, silicon modified polyesters, polyimide, fluorine, high-durability polyester, etc.

The production process has evolved from one-coating-and-one-baking to double-coating-and-single-baking, double-coating-and-double-baking and even three-coating-and-three-baking.

The color of the prepainted steel sheet has a very wide selection, like orange, cream-colored, dark sky blue, sea blue, bright red, brick red, ivory white, porcelain blue, etc.

The prepainted steel sheets can also be classified into groups by their surface textures, namely regular prepainted sheet, embossed sheet and printed sheet.

The prepainted steel sheets are mainly provided for various commercial purposes covering architectural construction, electrical household appliances, transportation, etc.

COATING STRUCTURE

涂层结构

1. 涂层结构类型:

- 2/1: 上表面涂二次，下表面涂一次，烘烤二次。
 - 2/1M: 上下表面各涂二次，烘烤二次。
 - 2/2: 上下表面各涂二次，烘烤二次。
 - 2. 不同涂层结构的用途
- 2/1: 单层背面漆的耐蚀性，划伤性能较差，但具有良好的粘结性，主要应用于夹芯板。
 2/1M: 背面漆的耐蚀性，抗划伤性和加工成型性较好，具有良好的粘结性。适用于单层压型板和夹芯板。
 2/2: 双层背面漆的耐蚀性，抗划伤性和加工成型性较好，多数用于单层压型板，但其粘结性不良，不宜用于夹芯板。

1. Type of coating structure

- 2/1: Coat the top surface of the steel sheet twice, coat the lower surface once, and bake the sheet twice.
 - 2/1M: Coat and bake twice for both top surface and undersurface.
 - 2/2: Coat the top/lower surface twice and bake twice.
 - 2. Usage of different coating structures
- 2/1: The anti-corrosion property and scratch resistance of the single-layer backside coating is poor, however, its adhesive property is good. The prepainted steel sheet of this kind is mainly used for sandwich panel.
 2/1M: Back side coating has good corrosion resistance, scratch resistance and molding performance. Besides it has good adhesion and applicable for single layer panel and sandwich sheet.
 2/2: The anti-corrosion property, scratch resistance and processing property of the backside coating of prepainted steel sheet is better, so it is widely used for roll forming. But its adhesive property is poor, so it is no used for sandwich panel.

彩涂板剖面结构示意图 Sketch Map of Sectional Structural of Prepainted Steel Sheet

- 漆面层 Finished Coating
- 粘合剂 Primer
- 化学转化层 Chemical Conversion Coating
- 镀层 Metallic Coating
- 冷轧板 Cold-rolled Steel Sheet



INTRODUCTION OF BASE METALS

基板种类介绍

彩涂板的基板可以分为冷轧基板、热镀锌基板、免镀锌基板、热镀铝锌基板。

冷轧基板

由冷轧基板生产的彩涂板，具有平滑美丽的外观，且具有冷轧板的加工性能；但是表面涂层的任何细小划伤都会把冷轧基板暴露在空气中，从首使露铁很快生锈变红锈。因此这类产品只能用于要求不高的临时措施和住室内用材。

热镀锌基板

热镀锌基板除具有锌的保护作用外，表面上的有机涂料还起了隔绝保护、防止生锈的作用。使用寿命比热镀锌板更长。热镀锌基板的含锌量一般为180g/m²（双面），建筑外墙热镀锌基板的镀锌量最高为275g/m²（双面）。

热镀铝锌基板

采用热镀铝锌钢板（55%Al-Zn）作为彩涂基板。通常含铝锌量为150g/m²（双面）。

热镀锌基板的耐蚀性是热镀锌板的2.5倍。

高于490℃的温度下连续长时间使用不会严重氧化或产生氯化物。

反射热和光的能力是热镀锌钢板的2倍，反射率大于0.75，是节能省能的理想建筑材料。

电镀锌基板

通常含锌量为20/20g/m²。因此该产品不适合使用在室外制作堆、屋顶等，但因具有美丽的外观和优良的加工性能，因此主要可用于家电、音像、家具、室内装潢等。

The base metals for prepainted steel sheet consist of cold-rolled, HDG electro-galvanized and hot-dip alu-zinc coated steel sheet.

Cold-rolled base metal

The prepainted steel sheet processed with cold-rolled base metal features in its smooth and beautiful appearance and the machinability of cold rolled steel sheet, however, in case of any tiny scratch on the top coating may expose the cold rolled base metal in the air and the exposed base metal may rust soon. Thus, the products of this kind can only be used as temporary isolation measures and indoor materials with low requirements.

Hot-dip zinc coated base metal

The prepainted steel sheet with hot-dip zinc-coated base metal as its base metal not only has the protective function of zinc coating but also has isolation and protection function with its organic layer that prevent it from rusting and prolongs its service span time, than that of hot-dip zinc steel sheet. The zinc content of hot-dip zinc base metal is generally 180 per 1 square meter(both sides), while that of the hot-dip zinc base metal for construction outdoors is 275 square meters per 1 square meters.

Hot-dip alu-zinc base metal

The hot-dip alu-zinc metal adopts the hot-dip zinc-aluminum coated steel sheet (55%Al-Zn) as its prepainted base metal.

The corrosive resistance of the hot-dip alu-zinc coated steel sheet is twice to 5 times as much as that of the hot-dip zinc coated base metal.

It can satisfy the processing requirements of rolling, coiling and others processes alike.

Its color won't change while continuously or intermittently working with an ambient temperature up to 316°C.

Neither serious oxygenation nor oxide scale might appear while continuously or intermittently working with an ambient temperature up to 490°C.

Its heat and the light reflected are respectively twice as much as those of hot-dip zinc steel sheet, and its reflectivity is more than 0.75, exceeding 0.65(required by the EPA Energy Star Standard), which is an ideal construction materials of saving energy.

Electro-galvanized base metal

The prepainted electro-galvanized steel sheet adopts an electro-galvanized base metal coated and baked with an organic coating. Owing to the thin zinc-coated layer of the electro-galvanized base metal, the zinc content of the prepainted steel sheet of electro-galvanized base metal is usually 20/20g/m², and the products of this kind are not suitable for building walls or roofs outdoors. However, it has esthetic appearance and excellent machinability, which makes it suitable for electrical household appliances, acoustic devices, steel household appliances, interior decoration, etc.

COMPOSITION AND FUNCTION OF COATINGS

涂料的组成及其作用

各种不同的涂料，都有四个部分组成，即（1）树脂（2）颜料（3）溶剂（4）助剂。其中溶剂是挥发部分。

[1] 树脂

树脂即成膜物质，是涂料中的最主要成分和基料。也是基料，它是决定涂膜性质的主要因素。要求作为成膜物质的树脂在涂料储存期内相对稳定，不发生明显的物理变化和化学变化，在成膜时，在规定的条件下，能迅速固化成膜。

树脂种类繁多，在涂料涂料中常用的树脂有丙烯酸树脂、环氧树脂、聚酯树脂和聚氯乙烯等。不同的树脂，其物理性质和化学性质，以及耐候性、耐蚀性是不一样的。

[2] 颜料

颜料淡与树脂配合使用，在涂料中的主要作用是使涂料着色，颜料比例不同会影响涂膜硬度、光泽度以及耐候性等。

[3] 溶剂

溶剂是液体涂料的重要组成部分，在涂料烘干过程中是被挥发的成分，一般也用常温调节涂料粘度，这种用于调节涂料粘度的溶剂称为稀释剂，溶剂对涂料的制造、贮存、漆膜的形成和漆膜质量有着很大的影响。

[4] 助剂

助剂是为了改善涂料性能而加入的少量添加剂，助剂在涂料中用量极少，作用却显著。如有的能改进涂料和涂膜的性能，有的能改善烘干时间，有的能防止涂膜产生弊病等。助剂种类繁多，有固化剂、固化剂、苯酐剂、消泡剂、消光剂、稳定剂等。

Every kind of coating consist of four kinds of ingredients, namely(1)resin, (2)pigment, (3)solvent, (4)additives. Among them, the solvent is a kind of volatile organic compound.

(1) Resin

Resin, namely the membrane forming matter, is the principal component and base of coating, also called base or material, with facilitating the formation of the property of the membrane. It is required that, being an membrane forming matter, resin should be very stable, without any obvious physical change or chemical change in the storage period of coating. Under the specified condition, it can should be quickly dried and congealed into a membrane within the period of membrane formation. There is a great variety of resin products, among which the commonly used ones in the coil coating consist of acrylic resin, epoxy, polyester resin, polyurethane, etc. Different resin has different physical & chemical characteristics as well as different properties in weather-proof, and corrosion resistance.

(2) Pigment

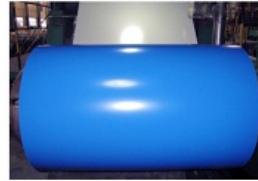
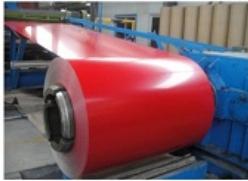
Pigment must match resin in coating, which mainly colors the membrane. Different proportion of the coating membrane has different rigidity, glossiness, and corrosion resistance, etc.

(3) Solvent

The solvent is an important component of liquid coating, which is volatile while baking the coating. Generally, the solvent is also used to adjust the viscosity of the coating, and the solvent of this kind is also called diluent. The solvent has important influences on the production, storage and application of coating, the formation of the membrane and the quality of the membrane.

(4) Additives

The accessory ingredient is a small amount of additive for improving the performance of coating. Although the dosage of the accessory ingredient is little in the coating, its function is remarkable. For instance, some of them can improve the performance of coating and that of the membrane, some can adjust the baking time, and some can prevent the membrane from morbidity. There is a great variety of the accessory ingredients, including siccative, curing agent, leveling agent, defoaming agent, flattening agent, stabilizing agent, etc.



THE PAINTING

涂料介绍

用途：建筑涂料和家电涂料

结构：底漆、面漆

树脂：环氧、聚酯、硅改性聚酯、聚氨酯、聚偏氟乙烯等

功能：自洁、抗静电、隔热等

Usage: coating for electrical household appliances

Structure: primer, finish coating

Resin: Epoxy, polyester, silicon modified polyester, polyurethane, polyvinylidene fluoride, etc.

Function: easy-cleaning, antistatic, heat insulation, etc.



CATEGORY AND FILM THICKNESS OF PRIMERS

底漆种类和膜厚

底漆有环氧、聚酯、丙烯酸和聚氨酯等。

- 一般根据产品的用途、使用场合、加工程度以及与面漆的配套来选择底漆。底漆的膜厚通常为5-7μm。
- (1) 环氧底漆
与基材的附着力良好，耐水，耐碱，抗化学腐蚀性好，是最早的卷材用底漆，柔韧性不如其他底漆。
- (2) 聚酯底漆
对基材的附着力好，柔韧性优异，对潮湿的环境较敏感，耐化学药品不如环氧底漆。
- (3) 水溶性丙烯酸底漆
对基材的附着力好，很好的柔韧性，有机溶剂含量低，低温固化。
- (4) 聚氨酯底漆
具有耐化学药品性，耐久性，柔韧性好。

The category of the primer includes epoxy, polyester, acrylic acid, polyurethane, etc.

In general, the primer is chosen in accordance with the usage, environment condition, processing stage and finish coat. The film thickness of the primer is usually 5~7μm.

(1) Epoxy primer

The epoxy primer has a strong adhesion to the base metal and good properties in waterproof, alkali-proof and chemical resistance, which is the original primer for the coiled steel, having a power flexibility.

(2) Polyester primer

The primer has strong adhesion to the base metal and excellent flexibility, which is relatively sensitive to damp environment and has a chemical resistance poorer than that of epoxy primer.

(3) Water-soluble acrylic acid primer

The primer of this kind has strong adhesion, excellent flexibility, lower organic solvent and low-temperature curing.

(4) Polyurethane primer

The primer of this kind has excellent chemical resistance, durability and flexibility.

CATEGORY AND CHARACTERISTICS OF FINISH COATS

面漆种类及特点

在卷钢涂料中，起耐久性作用的是树脂和颜料，最常用的面漆有聚酯、硅改性聚酯、高耐久性聚酯和聚偏氟乙烯等。

- (1) 聚酯
附着力良好，颜色丰富，在成型性和室外耐久性方面范围较宽，耐化学药品性中等，成本低。
- (2) 硅改性聚酯
涂膜的硬度，耐磨性和耐热性良好，以及良好的外部耐久性和抗粉化性，光泽保持性，柔韧性一般，成本中等。
- (3) 高耐久性聚酯
优秀的颜色保持性和抗紫外线性能，优秀的室外耐久性和抗粉化性，涂膜附着力好，颜色丰富，优异的性价比。
- (4) 聚偏氟乙烯
优秀的颜色保持性和抗紫外线性能，优异的室外耐久性和抗粉化性，优秀的抗溶剂性，良好的成型性，抗盐性，颜色有限，成本高。

Among all the ingredients of coil coatings, resin and pigment have the function of duration, and the primers commonly used consist of polyester, silicon modified polyester, polyvinylidene fluoride, high durability polyurethane, etc.

(1) Polyester

The finish coat of this kind has strong adhesive force, a variety of colors, wide scope of properties in formation and durability outdoors, moderate chemical resistance and low cost.

(2) Silicon modified polyester

The membrane of the finish coat of this kind has excellent rigidity, abrasion resistance, thermal resistance good outside durability, chalking resistance, high retention of color and luster, ordinary flexibility, moderate cost, etc.

(3) High-durability polyester

The finish coat of this kind has excellent retention of color, resistance of ultra-violet radiation, strong outdoors durability, chalking resistance, strong adhesion to the base metal, plenty of colors and relatively lower cost compared to the same quality.

(4) Polyvinylidene fluoride

The finish coat of this kind features in its excellent retention of color, resistance of ultra-violet radiation, outdoors durability, chalking resistance, resistance to solvent, formability, good dirt resistance, finite colors and high cost.



THE SPECIFICATION

产品规格

	A	AA	AAA	AAAA
基板/热镀锌	ZN40-60	ZN80-120	ZN120-180	ZN200-275
基板/热镀铝锌	AZ40-60	AZ80-120	AZ120-180	AZ200-275
厚度(mm)	0.16-1.0	0.16-1.0	0.16-1.0	0.16-1.0
宽度(mm)	800-1250	800-1250	800-1250	800-1250
钢卷内径(mm)	508/610	508/610	508/610	508/610
卷重(吨/T)	3-5	3-5	3-5	3-5
涂料种类	普通聚酯PE	高耐候HDP	硅化SMP	氟碳PVDF
膜厚	面漆25+/-5 背漆10+/-5	面漆25+/-5 背漆10+/-5	面漆25+/-5 背漆10+/-5	面漆25+/-5 背漆10+/-5

	A	AA	AAA	AAAA
Base Metal/GI	ZN40-60	ZN80-120	ZN120-180	ZN200-275
Base Metal/GL	AZ40-60	AZ80-120	AZ120-180	AZ200-275
Thickness(mm)	0.16-1.0	0.16-1.0	0.16-1.0	0.16-1.0
Width(mm)	800-1250	800-1250	800-1250	800-1250
ID(mm)	508/610	508/610	508/610	508/610
Weight(T/T)	3-5	3-5	3-5	3-5
Paint Type	PE	HDP	SMP	PVDF
Paint Thick	Top25+/-5 Back10+/-5	Top25+/-5 Back10+/-5	Top25+/-5 Back10+/-5	Top25+/-5 Back10+/-5



PRODUCTION PLATFORM

生产平台

欧通啃金彩钢板生产线采用美国CNSE公司控制技术和设备，采用Controlnet网络通信技术，可按客户要求生产宽度800~1250mm、厚度0.16~1m之间不同规格、不同颜色的彩钢板卷。

“欧通啃金”牌彩钢板，选用宝钢及其他供应商的优质板材，经退火、清洗、钝化处理后，涂层以高分子有机树脂漆膜，经“双涂一烘”固化而形成。将成熟工艺、精湛的设备、优质的有机涂料和先进的自动化控制系统有机结合在一起，产品具有优良的冷弯加工成型性、良好的耐候性、耐候性和美丽的装饰效果，被广泛应用于钢结构建筑、净化车间、保温工程、室内装修和家电制造业。

The production line of OutongXiaojin color steel plate co., ltd. introduced Controlnet technology and equipment purchased from USA CNSE company and adopted the Control network communication technology, making the production line one of most advanced among the domestic similar production lines. The company is able to manufacture 0.16~1m thick and 800~1250mm wide color steel sheets with different specifications, different-colored steel.

OutongXiaojin absorbs Baosteel and other superior supplier's qualified base material and is the organic combination of mature technology, superb equipments, quality organic coatings and advanced automation control system, which endow the product with excellent cold roll forming property, excellent anti-corrosion, corrosion resistance and beautiful decoration effect. And the products have been widely used in steel structure construction, purification workshops, insulation works, interior decorations and home appliance manufacturing industry.



TECHNIQUES AND PROCESS

生产工艺

欧通啃金彩钢板工艺先进，二涂一烘。

欧通啃金彩钢板选用宝钢等供应商的优质板材加工而成的镀锌和镀铝锌基板，其力学性能和化学性能优越。

欧通啃金彩钢板严格按照国家标准进行生产，涂层的光泽、铅笔硬度、耐腐蚀和冲击等性能得到有效保证。

欧通啃金彩钢板以其绿色环保、色泽丰富、性能优良、品质稳定而被客户认可。在国内，欧通啃金彩钢板是诸多客户的指定品牌；在国外越来越多的客户把欧通啃金彩钢板作为他们采购的首选。

OutongXiaojin color steel absorbs advanced double coating & single coating producing technology.

OutongXiaojin absorbs high quality the hot dlo galvanized steel and aluminum-zinc plates as base materials produced by Baosteel and other superior supplier's, makes the products has excellent mechanical and chemical properties.

OutongXiaojin color steel is manufactured in accordance with national standards, effectively ensuring the coating gloss, pencil hardness, corrosion and reverse impact.

OutongXiaojin color steel is popular by extensive customers due to its Green Environmental Protection, rich color, excellent performance, stable quality. OutongXiaojin color steel is the designated brand of most domestic customers: more and more customers abroad regard it as their first choices during their purchase.



PRODUCTION MANAGEMENT

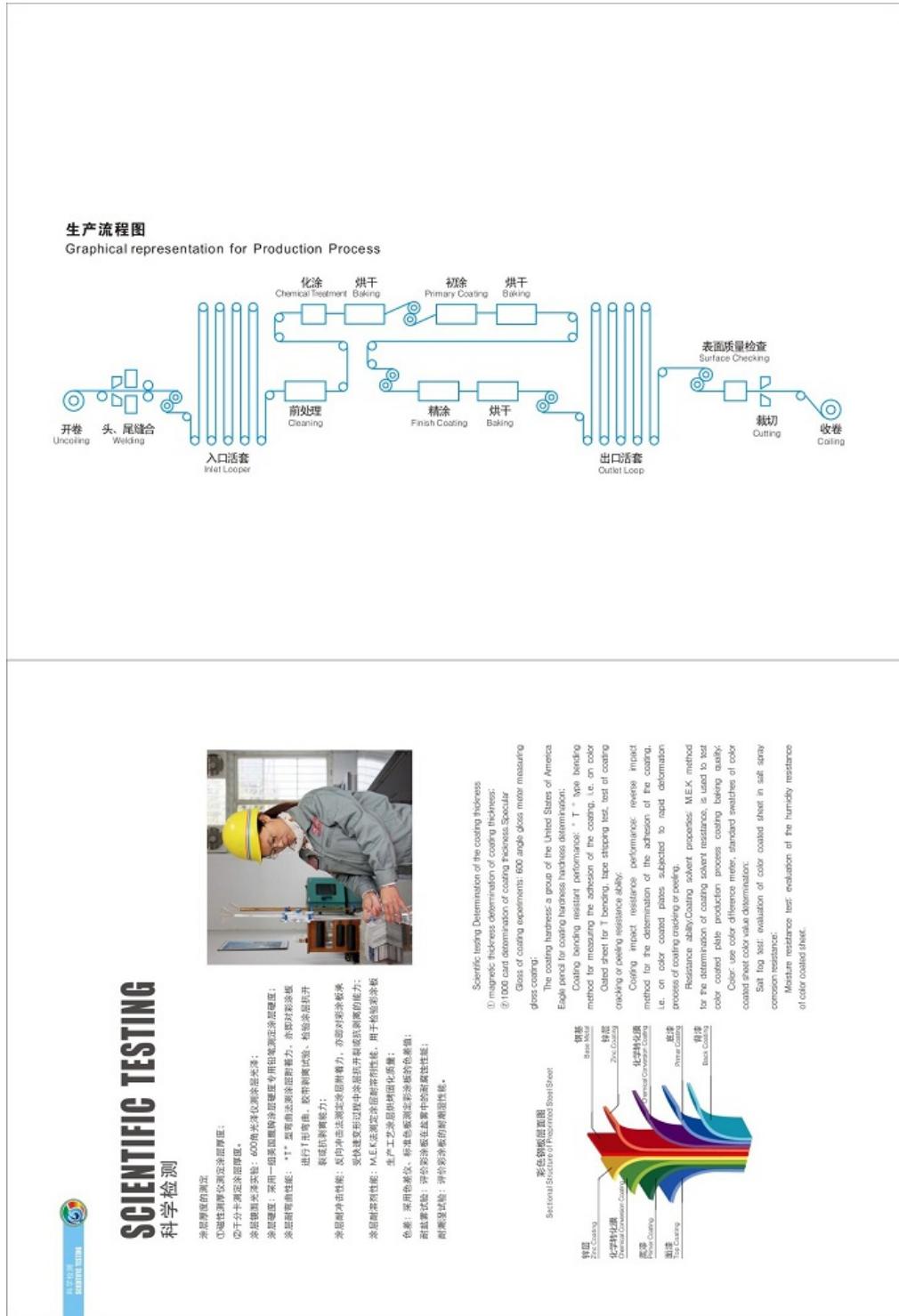
生产管理

以科技为先导，质量为重点。不断提升核心竞争力。质量管理是经济发展中的一个核心部分。提升质量总体水平是全体员工的共同心愿。公司与上海交通大学、同济大学和中国科学院等大专院校及政府权威研究机构建立了良好的长期合作关系，各项技术已达到国内领先水平。始终坚持“质量第一”、“质量是企业的生命”的宗旨。不断完善质量管理体系，把质量管理始终贯穿于供、产、销全过程。从原料、生产、销售等环节进行严格控制。并且每一个步骤都有详细的记录、环环相扣，使产品一直受控，及时将隐患消灭在萌芽状态，保证了产品的可追溯性。欧速五金今天的规范就是生产和管理的科学化、规范化、严格要求生产的每一个环节，员工的行为处处有章可循。公司已顺利通过了ISO9001质量管理体系认证和计量检测体系和中国、美国、法国、挪威、德国、意大利、韩国、英国、俄罗斯、印度等各国船级社的确认。正在向更高标准迈进。

Leaded by technology and focusing on quality, we strive to constantly enhance the core competitiveness. Quality management is a core part of the economic development, and enhancing the overall level of quality is the common aspiration shared by all the staff.

We have established good relations of cooperation with a number universities, like Shanghai Jiao Tong ,Tongji University, and government authoritative research institutions,such as Shanghai academy of social sciences etc, making the product quality reach the leading and advanced level in china. Adhering to the philosophy of ' quality first' and 'quality determines the life of an enterprise', we constantly improve the quality management system, conduct quality management in overall process of supply, production and sales. We also strictly control every process from raw material distribution, production and sales, with each step being recorded, eliminating the hidden troubles at the very beginning and standardized production and management, and strictly formulate every process, allowing the employee to have rules and standards to follow. The company has passed ISO9001 quality management system certification, metrology inspection system certification, and classification society such as CCS,ABC,BV,DNV,GL,RINA,KR,LR,RS,IRS, certification, and is scaling to higher peak and standards.



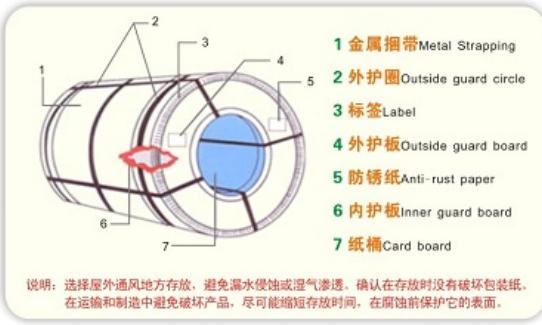


PACKAGE

产品包装

钢卷保持干燥，并尽量缩短库存期，不要被水浸湿，避免存放于易受雨淋或易结晶之潮湿场所，避免露天存放。产品不要放在易被沙土、灰尘污染的地方，沙土和灰尘沉积会损伤钢板表面的镀层或涂层膜，容易导致白锈生成。钢卷不宜多层次堆放，多层次堆放，容易产生危险，并导致钢卷发生变形、损伤等问题。为防止钢卷发生刮伤和碰伤，不要用叉式堆高机来翻转制品，要使用专门搬运台，以保护钢卷外侧不被砸伤。运输钢卷的卡车须铺上橡皮垫，在运输钢卷时要牢牢固定，以免钢卷因滚动而导致危险或损伤。

Products should be stored in dry and ventilated room short storage. Preventing from water soaking, raining and moisture environment. Products should be stored in a clean and neat environment, preventing the dust and dirt stacking on surface, which can damage the zinc coating or painting and lead to white rust. The steel coil should not be multi-layered stacked, otherwise the deformation and damage may occur which is dangerous. To prevent the scratches and bumps, it is advised not to use fork stacker to flip the products, so the specialized handling platform is advisable to avoid bumping. When transporting the products, the trucks to be covered with rubber mat, and it is advised that the steel coils be firmly fixed, so as to avoid slipping and dangerous injury.



APPLICATION FIELD

应用领域

彩涂钢广泛应用于汽车、家电、船舶、火车、卡车，以及各类建筑业所用，诸如飞机场、火车站、钢厂、活动板房、彩钢板、门窗、装修装饰、冷库隔热板、夹芯板、广告牌等。

PPGI is widely used in automobiles, home appliances, ships, trains, trucks, and all kinds of used construction, such as airports, railway stations, steel mills, prefabricated houses, color steel tile, doors and Windows, decoration, refrigeration storage, insulation board, sandwich board, billboard, etc.

