



汇金·斐普特



汇金集团
HUIJIN GROUP

以诚聚人
以德汇金

单励奋勇
共赢同兴

Prepainted Steel Coils

彩涂钢卷



成为钢铁深加工与应用领域产品、技术、服务领先的国际供应商

Become one leading International supplier of Steel deep processing and application field of products, technology, service



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Group Introduction 集团公司介绍

Shandong Huijin Group was founded in 1988 , which has three PPGI/PPGL and two GI/GL steel production lines.

The capacity of color coated steel reaches to 400000tons and 300000tons of GI&GL steel per year. Company own 510 employees .

Following is Huijin Group's branch company:

1. Shandong Huijin Color Steel Co.,Ltd

2. Shandong Huijin Industry & trade Co.,Ltd

3. Ls(Shanghai) International Trading Co.,Ltd

4. Binzhou Huiboyuan Trading Co.,Ltd

5. Shandong Ruiguo Environmental Technology Co., Ltd.

6. Bjointg Science and Technology Co., Ltd

山东汇金彩钢有限公司

山东汇金工贸有限公司

龙汕(上海)国际贸易有限公司

滨州汇博源贸易有限公司

山东瑞国环保科技有限公司

贝汇得科技有限公司



100%合作 100%品质 100%承诺



国际品质·共同承诺



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Our Products: Huijin-FIPTE PPGI & PPGL is high durable and fade resistant high quality color coated steel coils, which is developed and manufactured by us and Akzo Nobel together. Akzo Nobel is the world's largest paint and coatings production enterprise, the world top 500 enterprise, own some famous sub-brand such as Dulux、Sikkens、International、Eka、levis. etc. **At present we have established strategic cooperative relations with Akzo Nobel.**

我们产品: 汇金-斐普特彩钢是高耐候抗褪色的高档彩钢产品, 由我们和阿克苏诺贝尔共同研发生产。阿克苏诺贝尔是全球最大的油漆和涂料生产企业, 世界 500 强, 旗下拥有多乐士 (Dulux)、新劲 (Sikkens)、国际 (International)和依卡 (Eka)、来威漆 (levis) 等著名品牌。目前我们和阿克苏诺贝尔建立了战略合作关系。



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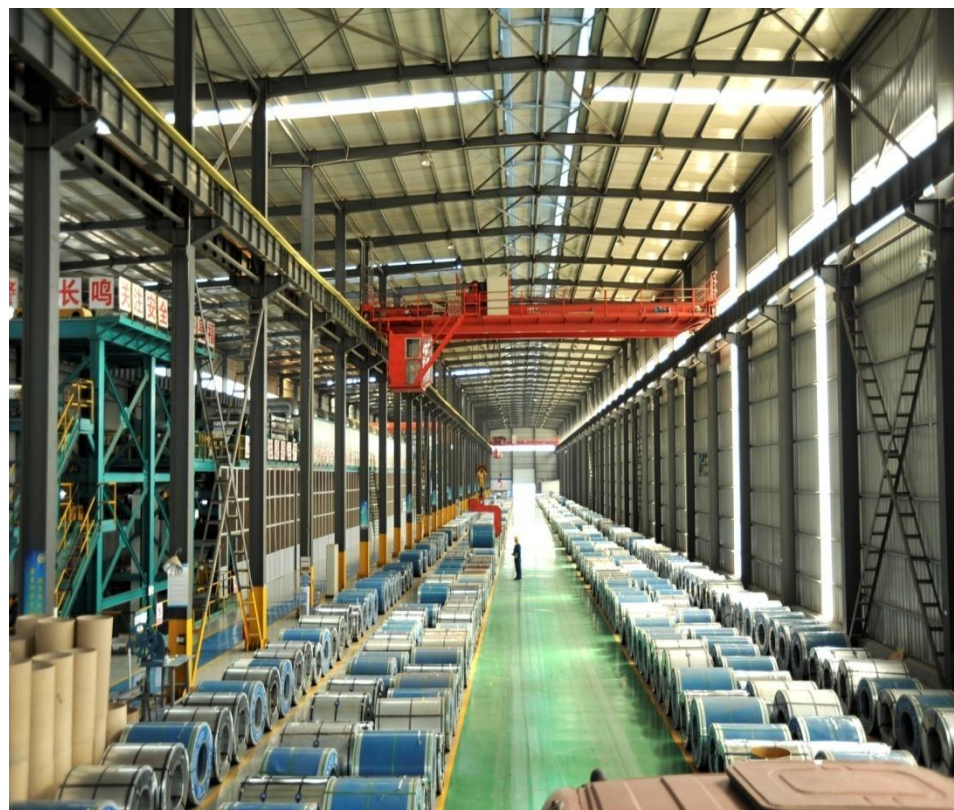
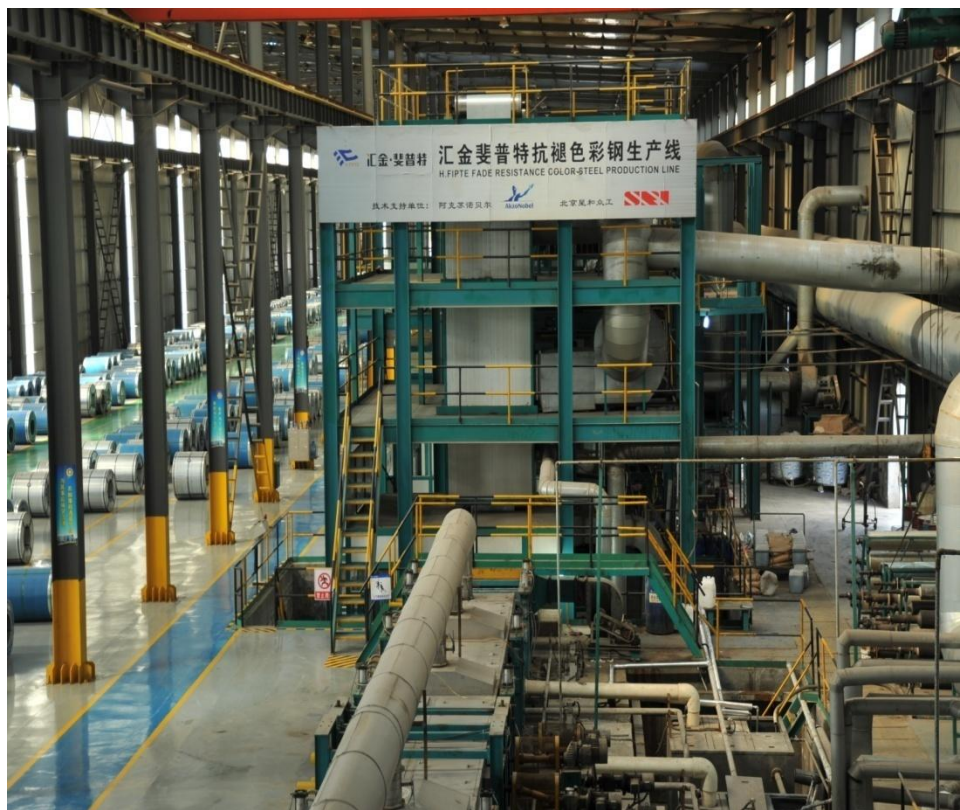
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Manufacturing Shop-PPGI&PPGL 专业化制造车间-彩涂钢板



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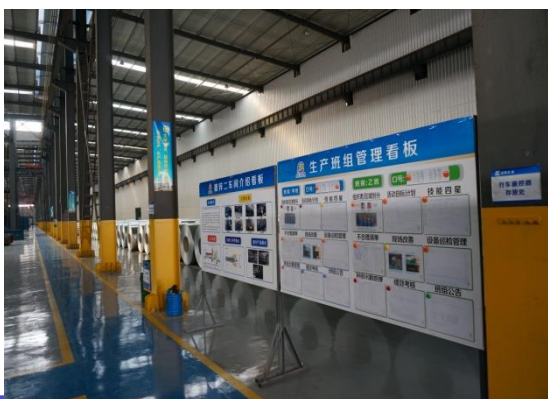
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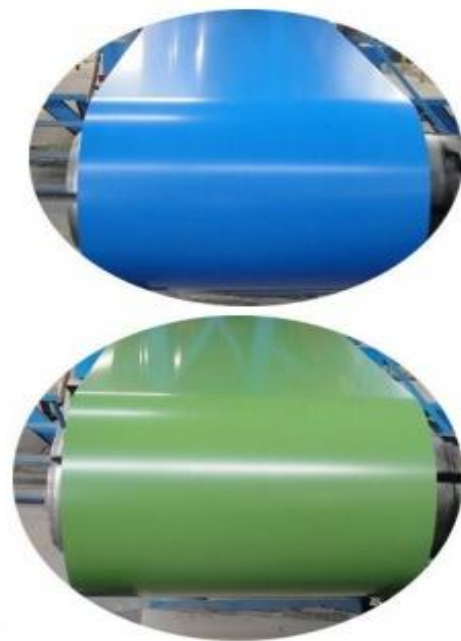
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Introduction of Coatings

涂料介绍

油漆由阿克苏诺贝尔直接生产供应, 保证质量

The paint is produced and supplied by Akzo Nobel directly, ensure the quality.



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阿克苏诺贝尔
全球合作单位



Global cooperation
enterprises with Akzo Nobel

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Advanced Production Technology 领先的生产技术



- √ Dual anti-semar covering technology
- √ Dust proof system
- √ Shot blast texturing technology

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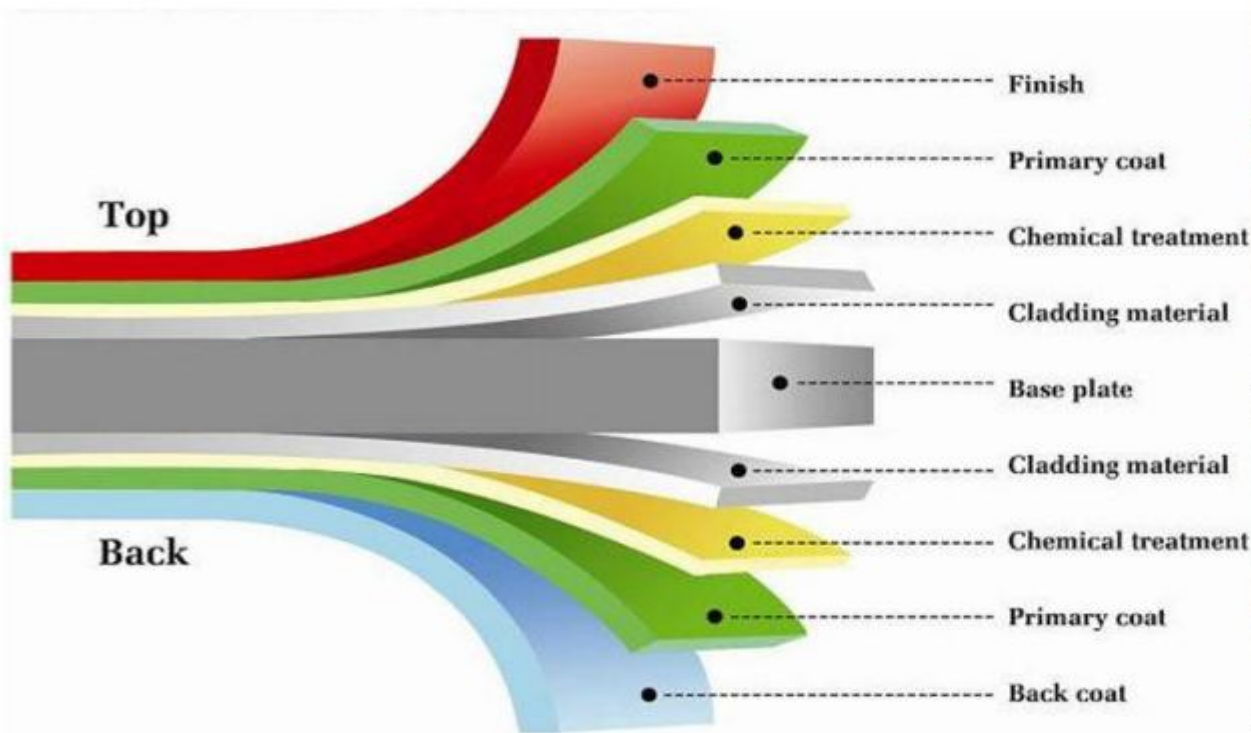


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Our Products 我们的产品

Diagrammatic cross-section of color-coated sheet 产品结构



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**Our Products
我们的产品**

Products Specification 产品参数

<p>PPGI & PPGL Coils</p>  	涂料 Paint	Akzo Nobel
	宽度 Width:	900mm---1250mm
	厚度 Thickness:	0.18---0.8mm
	锌层 Zinc Coating:	Z40g/m2---Z180g/m2.
	面漆 Top Color Coating:	5+10μm---5+20μm
	背漆 Back Color Coating:	≥ 5μm
	色号 Color No:	as per Ral No or Samples
	抗拉强度 Tensile Strength	270---550Mpa
	屈服强度 Yield Strength	300Mpa, 350Mpa, 450Mpa, 550Mpa
	铅笔硬度 Pencil Hardness	3H
	光泽度 Glossiness	Low ≤40; Middle 40-70; High >70
	抗弯试验 Bending Test	≤ 3
	硬度 Hardness	65-95 soft or full hard
	卷内径 Coils Inner	508mm & 610mm
	包装 Package	Horizontal or Vertical packaging with Paper & Iron Inner drum

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Our Products 我们的产品

Excellent Product Performance 优异的产品性能

Fade resistant coatings specially provided by Akzo Nobel reach world-class level in terms of ageing resistance and chalking resistance, with excellent performance such as long-lasting color, close-knit paint film, perfect self-cleaning, rust resistance and high-degree combination.

产品采取阿克苏诺贝尔公司专供的抗褪色涂料，在抗老化、抗粉化方面达到世界一流水平。具有**色彩持久、漆膜密实、高度自洁、耐锈耐蚀和高度结合**的优异性能。

- 汇金对使用汇金·斐普特抗褪色彩钢产品的客户出具书面质保书。

We issue written warranty for H-FIPTE PPGI & PPGL user.

- 在彩钢行业中，一般只有宝钢、马钢等国企和博思格、烨辉等一流企业才出具书面质保书，民企中基本没有出具书面质保的厂家。但汇金·斐普特产品提供书面质保。

In pre-painted steel line, only state-owned companies such as Bao Steel, Ma Steel etc and Bluescope and YIEH PHUI etc first-class enterprise issue written warranty. But we also issue.

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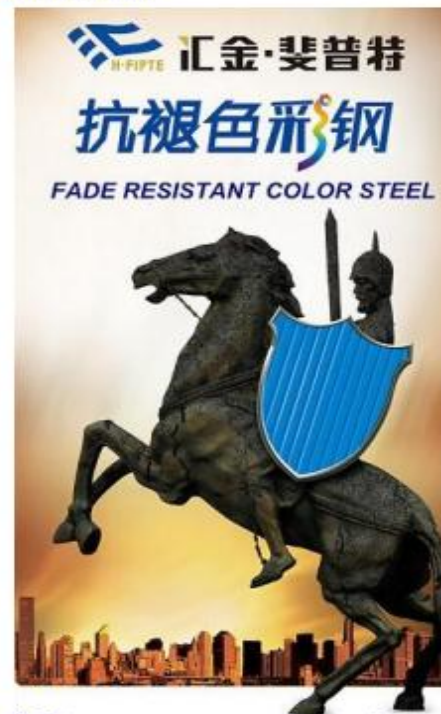
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Our Products 我们的产品

Key PPGL & PPGL Products and Paint Coating Technologies 主要彩涂产品及涂料技术



- Generic Polyester System (PE)
普通聚酯系列
- High Durable Polyester System (HDP)
高耐候聚酯系列
- Silicone Modified Polyester System (SMP)
硅改性聚酯系列
- Polyvinylidene Fluoride System (PVDF)
氟碳系列
- Cool Roof Products System
冷屋顶系列
- Wrinkle Effect (Grain & Matte & texture)
皱纹漆系列
- Self Clean Products System
自清洁系列
- Anti Microbial Products System
抗霉菌系列
- Anti Static Products System
抗静电系列



"After many years, out color steel products---shield keep fresh, fade resistance. But the horse is rusty already"

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Introduction of Products about PPGI & PPGL 产品介绍

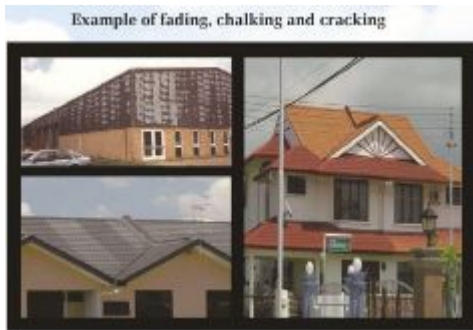
Generic Polyester System(PE) 普通聚酯系列(PE)

Product Properties

- √Excellent fade resistance and chalking resistance performance
- √Excellent anti-tarnish performance
- √Anti-fingerprint function

产品性能

- 极好的抗褪色、抗粉化性能
- 卓越的表面抗变暗性能
- 耐指纹功能



Exposure test in the marine environment for 10 years



Anti-fingerprint treatment No anti-fingerprint treatment



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Introduction of Products about PPGI & PPGL 产品介绍

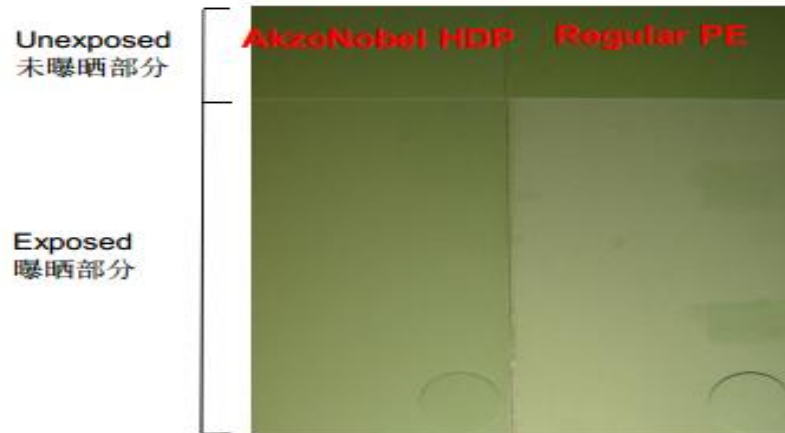
High Durable Polyester System (HDP) 高性能聚酯体系 (HDP)

Product properties

- ✓ Unsurpassed durability versus regular PE
- ✓ Excellent formability
- ✓ Extensive color selection
- ✓ Good value performance
- ✓ More than 10 years real exposure data

产品性能

普通聚酯无可比拟的耐候性
加工成型性优异
颜色选择范围广
性价比高
超过10年的曝晒数据



Note: Florida exposure panels.
说明：佛罗里达曝晒板。

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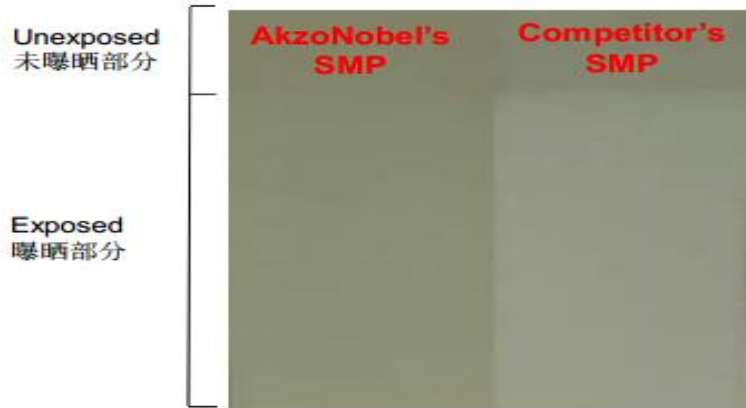
Silicone Modified Polyester System (SMP) 硅改性聚酯体系 (SMP)

Product properties

- ✓ Best silicone polyester technology in industry
- ✓ Unsurpassed durability versus regular SMP
- ✓ Great life-span
- ✓ Prestige brand in export market
- ✓ More than 10 years real exposure data

产品性能

行业内最好的硅改性技术
普通硅改无可比拟的耐候性
使用寿命长
出口市场的高端品牌
超过10年的曝晒数据



Note: Florida exposure panels.
说明：佛罗里达曝晒板。

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Introduction of Products about PPGI & PPGL 产品介绍

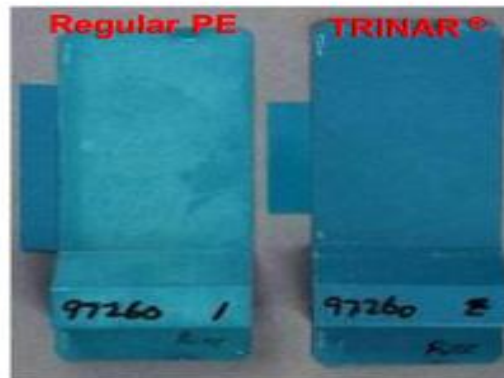
TRINAR® PVDF System TRINAR® PVDF体系

Product properties

- ✓ 70% Kynar® or Hylar® fluorocarbon
- ✓ Only inorganic/ceramic pigments
- ✓ Great life span
- ✓ Savings on maintenance
- ✓ More than 20 years real exposure data

产品性能

- 含70%Kynar或Hylar树脂
- 只用无机和陶瓷颜料
- 使用寿命长
- 节省维修费用
- 超过20年的曝晒数据



Note: Florida exposure panels. Small panels on left side of each exposure panels are unexposed control.
说明：佛罗里达曝晒板。每块大曝晒左边的小板是未曝晒的标准板。

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Introduction of Products about PPGI & PPGL 产品介绍

Cool Roof Series Properties 冷屋顶系列性能



☆Higher infrared reflectance in same color against regular products.

与普通产品同色系相比对红外光的反射率更高

☆In the hot summer could effectively reduce the solar radiation, and reduce energy losses.

在炎的季节可有效降低太阳辐射的影响，减少能源损耗

☆Room temperature stays cooler and reduce air conditioning cost. On the basis of maintaining its characteristics such as long lasting color and high-durability, it has an additional performance of marvelous energy conservation.

使屋内温度较低，节省空调费用.在保证优异的色彩持久度、高耐候性等性能基础上，增加了极佳的节能性能。

☆Available in some of Polydure®, SMP and TRINAR® 已用于部分 Polydure®, SMP 和 TRINAR®体系中。

☆Some Cool Roof Products are included in Energy Star® program; LEED® certifiable.

部分冷屋顶产品已加入美国 Energy Star® 产品评级程序；可通过 LEED®认证。



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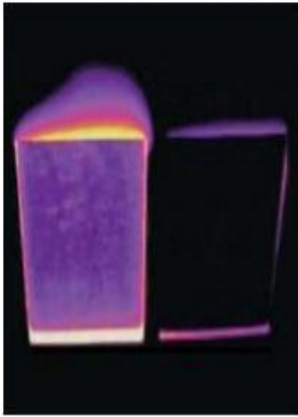
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Introduction of Products about PPGI & PPGL 产品介绍



Picture on top: Lab test for effect of infrared reflectance - infrared lamps to shine on test materials.

左上图: 用试验室方法检测红外反射效果, 开一组红外灯照在待测物体上。



Picture at bottom: Through thermal imaging camera shows the panel on the right uses COOL CHEMISTRY® pigments is much more reflectance for infrared than the panel on the left using traditional pigments, and hence much lower temperature.

左下图: 热成像摄影机显示右边使用了COOL CHEMISTRY® 颜料的板子对红外线的反射能力远高于左边使用普通颜料的板子, 因此温度低得多。

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Introduction of Products about PPGI & PPGL 产品介绍

Wrinkle Coating Series Properties 皱纹效果系列性能 (grain, matte, texture effect)



- ☆Low gloss, generally below 10
- ☆Excellent marking resistance
- ☆Excellent abrasion resistance
- ☆Good flexibility and hardness
- ☆Suitable for exterior & Interior use

较低的光泽，通常在 10 以下
优异的耐涂划性能
优异的耐磨性能
优良的加工性能与硬度
兼顾室内机户外用途



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Texture

Matte

Grain

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Introduction of Products about PPGI & PPGL 产品介绍

Self Clean Products Properties 自清洁系列性能

Its unique Dual Anti-smear Technology process and baking technique can make the dust particles remain loose and effectively prevent dust particles attached to the surface of coating, therefore the color-coated sheet can keep clean for a very long time.

独特的双抗涂覆工艺和耐固烤漆工艺能使灰尘颗粒呈现“松散”的状态，有效地防止灰尘颗粒附着在镀层表面，使彩涂板长时间保持清洁表面。

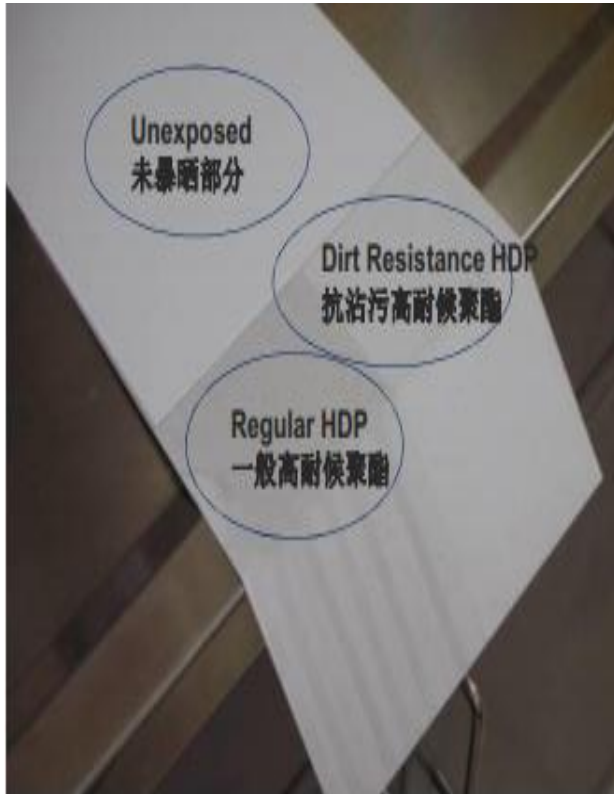


- ☆High surface tension of paint film 漆膜表面张力高
- ☆It is dust-proof 灰尘附着程度低
- ☆Excellent anti-staining performance 优异的抗沾污性能
- ☆It can effectively reduce the cleaning frequency 有效地减少清洗频率

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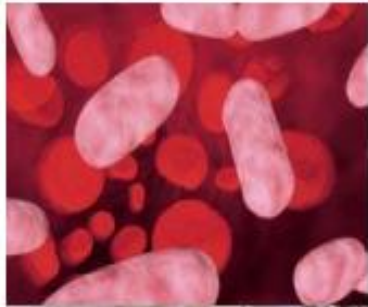


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Introduction of Products about PPGI & PPGL 产品介绍

Anti Microbial Products Properties 抗霉菌系列性能



☆It is in accordance with the antibiotic standard of JIS 2801:2000 Standard

符合 JIS2801:2000 抗菌标准

☆It can effectively prevent the growth of bacteria and fungus on the surface of paint film

能有效抑制细菌，真菌在漆膜表面的生长

☆It can protect the environment where it is difficult to keep clean

能有效保护难以保持清洁的环境

☆It can reduce the risk of cross contamination

降低交叉污染的风险

☆Its resistance to bacteria will not be weakened due to repeated wiping

抗菌力不会因为反复擦拭而降低



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Introduction of Products about PPGI & PPGL 产品介绍

Anti Static Products Properties 抗静电系列性能



☆Electric conductivity of product is between $10^{-6} \sim 10^{-9} \Omega/\text{sqm}$.

产品的导电率在 $10^{-6} \sim 10^{-9}$ 欧姆每平方米之间

☆It can export the electrostatic charge from the surface of coating fast, to reduce the carrying rate of surface charge

可迅速将表面静电电荷导出，降低表面电荷的携带率

☆It can effectively avoid equipment failure and fire hazards caused by static electricity

可有效避免由于静电原因造成的设备故障和火灾隐患

☆It can also effectively reduce the dust adsorption caused by static electricity

可有效减少因静电造成的灰尘吸附现象的产生

☆Suitable for clean rooms in Semi conductor factory, electric factory, chemical factory, etc.

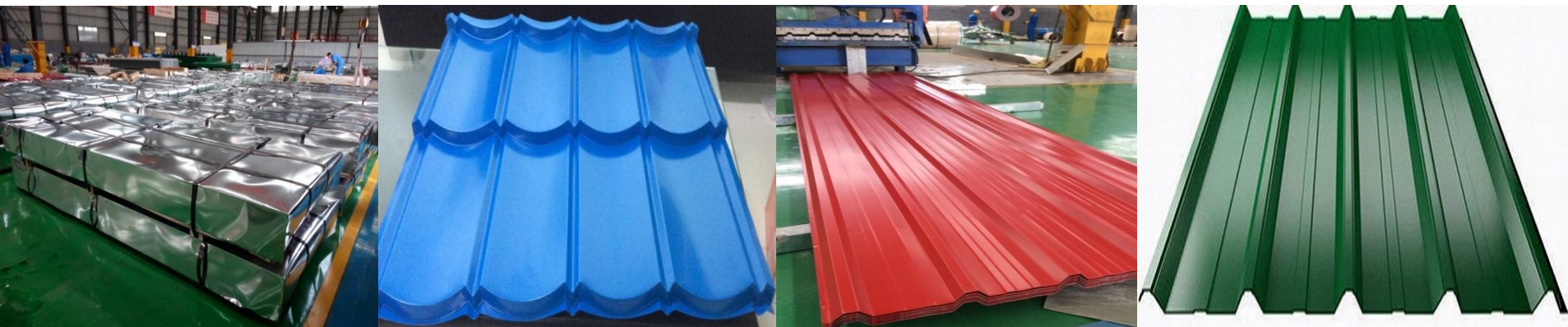
适用于净化房，如半导体厂房，电子厂厂房，微机房，化学工厂等。

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Introduction of Products about PPGI & PPGL 产品介绍

Corrugated Sheet 瓦楞板



Color as per RAL No or sample.

Apply Akzo Nobel paint (5-20years no fade)

Keeping colorful (resistance fade)

Tile type:

1. YX25-210-840
2. YX15-225-900
3. YX25-205-820
4. YX18-76-836
5. YX25-196-980
6. YX28-207-828

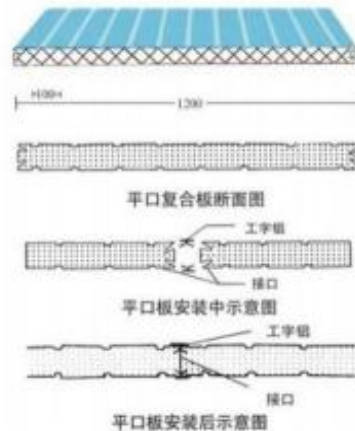
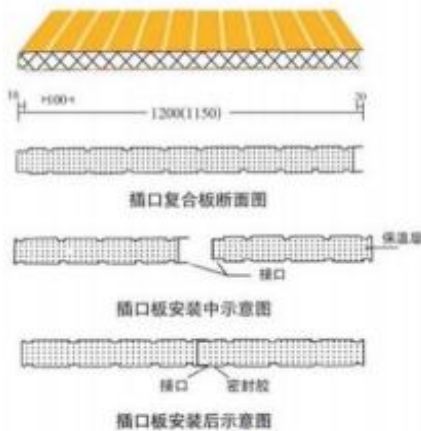
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Introduction of Products about PPGI & PPGL 产品介绍

Sandwich Composite Panels 夹心复合板

- 岩棉
 - 体积密度: 120kg/m³
 - 导热系数: 0.046W
 - 最高使用温度: 约 500℃
 - 燃烧性能: A 级 (不燃性)
- Rockwool
 - Bulk density: 120kg/m³
 - Thermal conductivity: 0.046W
 - Maximum service temperature: about 500 °C
 - Combustion performance: A-level (not flammable)

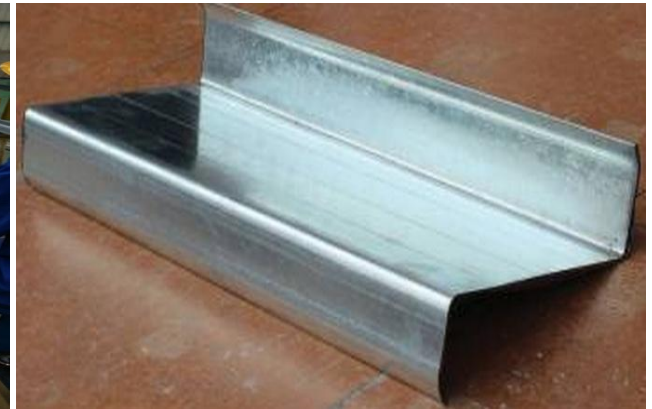
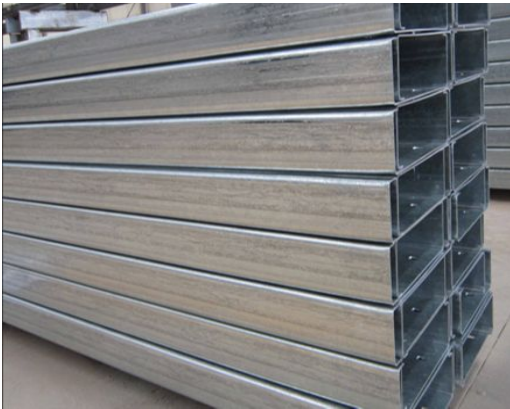


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Introduction of Products about PPGI & PPGL 产品介绍

C&Z purlin



Material:

Galvanized steel sheet

Strong structure

Size:

For example : C100*50*20*2mm



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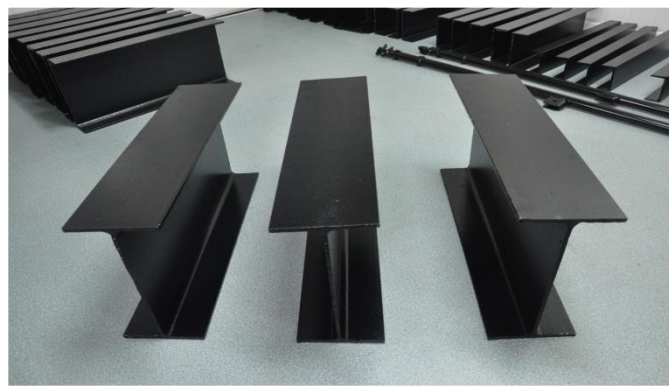
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以诚聚人 卓励奋勇
以德汇金 共赢同兴

Manufacturing Shop-H.RUNET 专业化制造车间-瑞耐特



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Test 试验

Laboratory Cooperated With Akzo Nobel 阿克苏诺贝尔合作实验室

We have ability to do "Acid and alkali resistant test", "Salt spray test", "UV Test", "Zinc Coating test", "Color Coating test", "Strength test", "Color difference tester", "Glossiness test", etc. We have our own Exposure field.



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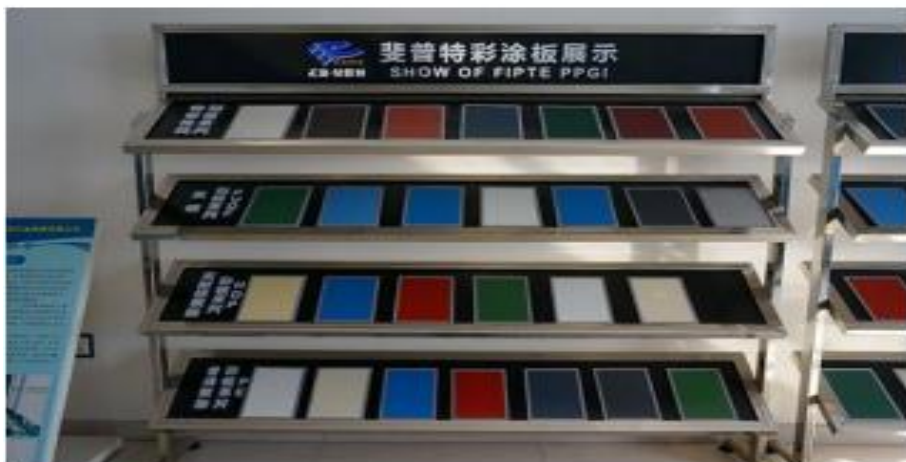


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Test 试验



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Test 试验

汇金彩涂板中性盐雾试验结果

Results of the test of resistance to neutral salt mist of Huijin prepainted steel sheet

5%NaCl 35± 2°C 连续喷淋1000小时

5% NaCl, 35± 2°C continuous sprinkling for 1000 hours

彩涂板种类 Category of prepainted steel sheet	颜色 Color	起泡等级 The grade of foaming	生锈等级 The grade of rust	表面情况Surface conditions
普通聚酯 PERegular polyester PE	海兰 Sea blue	0级 Zero level	不生锈 No rust	无变化 No change
普通聚酯 PERegular polyester PE	白灰 Grey	0级 Zero level	不生锈 No rust	无变化 No change
普通聚酯PE(镀铝锌基板) Regular polyester PE(alu-zinc coated base metal)	白灰 Grey	0级 Zero level	不生锈 No rust	无变化 No change
硅改性SMP Silicon modified the polyester SMP	香山白 White	0级 Zero level	不生锈 No rust	无变化 No change
硅改性SMP Silicon modified the polyester SMP	海兰 Sea blue	0级 Zero level	不生锈 No rust	无变化 No change
高耐久性HDP High duration of HDP	蚝白 Oyster white	0级 Zero level	不生锈 No rust	无变化 No change
高耐久性HDP High duration of HDP	净月灰 Moon grey	0级 Zero level	不生锈 No rust	无变化 No change
氟碳PVDF Fluorocarbon PVDF	宝石灰 Royal grey	0级 Zero level	不生锈 No rust	无变化 No change
氟碳PVDF Fluorocarbon PVDF	宝石蓝 Royal blue	0级 Zero level	不生锈 No rust	无变化 No change

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Test 试验

汇金彩涂板耐酸碱试验结果

Results of the test of resistance to acid/alkali of Huijin
prepainted steel sheet

耐弱酸 耐弱碱

resistance to acid/alkali

0.1%HCl, 0.1%NaOH 室温下浸泡24小时

0.1% Hcl or NaOH, soak for 24 hours at room temperature

Category of prepainted steel sheet 彩涂板种类	Color 颜色	The grade of color change变色等级	The grade of gloss loss失光等级	The grade of foaming起 泡等级	Surface conditions 表面情况
普通聚酯PE Regular polyester PE	海兰 Sea blue	0级 Zero level	0级 Zero level	0级 Zero level	无变化 No change
普通聚酯PE Regular polyester PE	白灰 Grey	0级 Zero level	0级 Zero level	0级 Zero level	无变化 No change
普通聚酯PE(镀铝锌基板) Regular polyester PE(alu-zinc coated base metal)	白灰 Grey	0级 Zero level	0级 Zero level	0级 Zero level	无变化 No change
硅改性SMP Silicon modified the polyester SMP	香山白 White	0级 Zero level	0级 Zero level	0级 Zero level	无变化 No change
硅改性SMP Silicon modified the polyester SMP	海兰 Sea blue	0级 Zero level	0级 Zero level	0级 Zero level	无变化 No change
高耐久性HDP High performance of HDP	蚝白 Oyster white	0级 Zero level	0级 Zero level	0级 Zero level	无变化 No change
高耐久性HDP High duration of HDP	净月灰 Moon grey	0级 Zero level	0级 Zero level	0级 Zero level	无变化 No change
氟碳PVDF Fluorocarbon PVDF	宝石灰 Royal grey	0级 Zero level	0级 Zero level	0级 Zero level	无变化 No change
氟碳PVDF Fluorocarbon PVDF	宝石蓝 Royal blue	0级 Zero level	0级 Zero level	0级 Zero level	无变化 No change

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Honor Certificate 荣誉证书



《ISO9001:2008》



《ISO14001:2004》



《SGS Certificate》



《Dual Anti-smear Covering Technology》



《China Credit Example Certificate》



《China Top Enterprises》

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《 Authorization from Akzo Nobel 》



《 Certificate of Utility Model Patent 》

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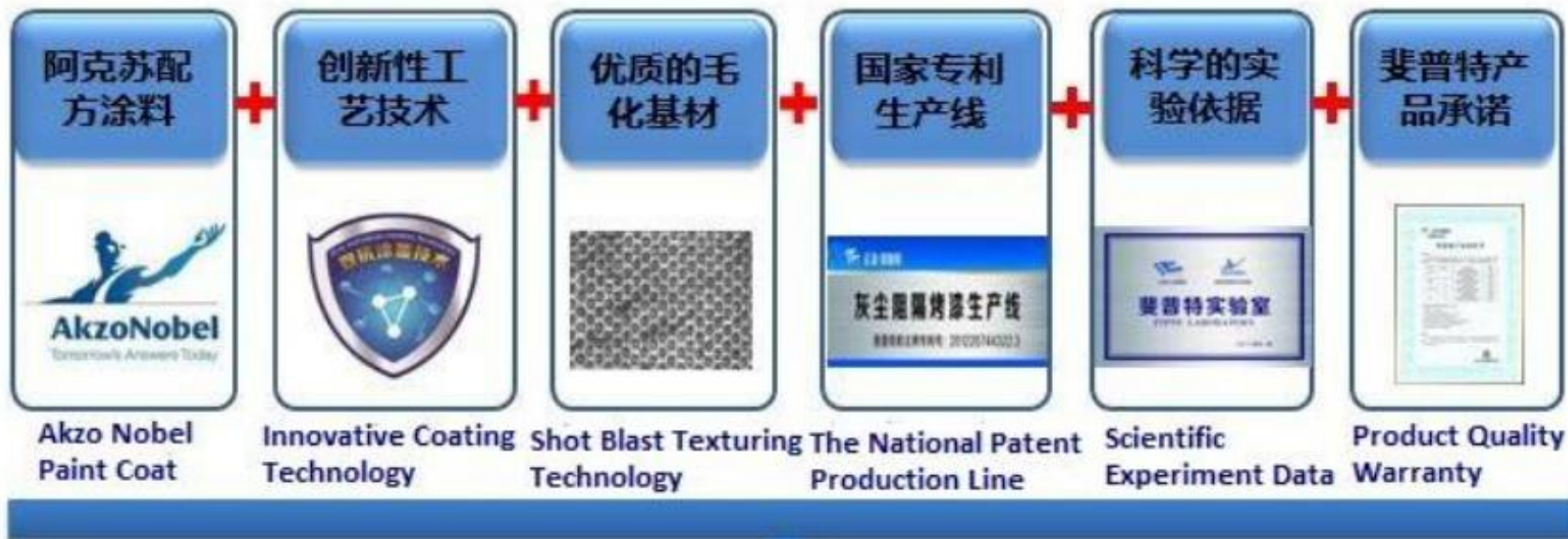


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Fade Resistance Color-coated Steel



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抗褪色彩钢

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Quality Assurance 质量保证

Strong Quality Assurance 强大的质量保障

Huijin Group has more than 20 years of experience in practice and engineering verification. As a drafter for several national standards such as Double Skin Metal Faced Insulating Panels for Building as well as Exterior Wall Construction and Installation Specification, Huijin Group always complies with the production standard strictly in terms of manufacturing technique and product performance, provide the customers who use H.FIPTE fade resistant color steel with Quality Certification to make sure that the quality of products provided to customers is stable and reliable.

汇金集团拥有 20 多年的实践经验和工程验证。汇金集团作为《建筑用金属表面绝热夹芯板》，《外墙施工与安装规范》等多项国家标准起草单位之一，其生产工艺和产品性能都严格执行生产标准，并向使用斐普特抗褪色彩钢的客户出具《质量保证书》，为客户提供稳定可靠的产品质量。



《The National Standard Drafting Unit》

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Quality Assurance 质量保证

Warranty for color steel sheet products 彩涂板产品承诺书

The performances of top coating under normal storage and use conditions as below:

在正常储运和使用条件下，正面涂层性能质保如下表：

Paints Type 涂料种类	Term(year) 年限 (年)	Items 项目		Index 指标
PE 普通聚酯	10	The Integrity of coating	涂膜的完整性	Integrity 完整
	7	Chalking grade	粉化等级 (按 GB/T 1766)	≤ 4
		Color variation	色差 (按 GB/T 13448)	Δ E ≤ 10
HDP 高耐候聚酯	15	The Integrity of coating	涂膜的完整性	Integrity 完整
	10	Chalking grade	粉化等级 (按 GB/T 1766)	≤ 4
		Color variation	色差 (按 GB/T 13448)	Δ E ≤ 10
SMP 硅改性聚酯	20	The Integrity of coating	涂膜的完整性	Integrity 完整
	15	Chalking grade	粉化等级 (按 GB/T 1766)	≤ 4
		Color variation	色差 (按 GB/T 13448)	Δ E ≤ 10
PVDF 氟碳	25	The Integrity of coating	涂膜的完整性	Integrity 完整
	20	Chalking grade	粉化等级 (按 GB/T 1766)	≤ 4
		Color variation	色差 (按 GB/T 13448)	Δ E ≤ 10

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Quality Assurance

质量保证

Quality assurance

Huijin has already passed the authentication by the ISO9001, ISO9002 and ISO14001 in succession and established a completed set of quality assurance system. Under such a complete set of quality assurance systems, there has a complete set of regulations for ordering, order handling, quality design, purchasing raw materials, working out production plan, production, test and inspection, packaging, storage, delivering, etc. In addition, the ERP production and marketing system not only improves the working efficiency but also assures the quality of product.

质量保证

汇金通过了ISO9001,ISO9002,ISO14001质量认证, 建立和完善了一整套质量保证体系。在一整套质量保证制度下, 从订货、订单处理、质量设计、原料采购、生产计划的编制, 产品的生产、试验检验, 以及通过整体产销ERP系统管理, 不但提高了工作效率, 而且保证了产品的质量。

Service promise

PVDF provides with a 20-year service promise.

HDP provides with a 15-year service promise.

使用承诺

PVDF提供20年的使用承诺保证。

HDP提供15年的使用承诺保证。



Warranty for color steel sheet products

Users:
We promise our products HJ-FPT meet the performances of top coatings under normal storage and use conditions as below:

Pains type	Term(year)	items	index
PE	10	the integrity of coating	integrity
	7	Chalking grade(GBT 1766)	≤4
		Color variation(GBT 13448)	ΔE≤10
HDP	15	the integrity of coating	integrity
	10	Chalking grade(GBT 1766)	≤3
		Color variation(GBT 13448)	ΔE≤10
SMP	20	the integrity of coating	integrity
	15	Chalking grade(GBT 1766)	≤3
		Color variation(GBT 13448)	ΔE≤10
PVDF	25	the integrity of coating	integrity
	20	Chalking grade(GBT 1766)	≤2
		Color variation(GBT 13448)	ΔE≤10

The meaning of normal storage and use conditions:
 A:under the normal weather condition
 B:the slope of roof no less than 10 degree.
 C:there is no damage of the surface or nothing repaired
 D:the using environment should be more than 1000m away from heavy industry and coastline.
 E:so corrosive things on the surface for long time
 F:the construction or buildings should be located in China

Others:
Color variation with organic pigments should be out of the warranty scope. In case issues happen we havenot described within the above, we will consult with users friendly and all explains of the warranty belong to Shandong Huijin co., Ltd.


 Shandong huijin color steel co., Ltd.

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Quality Assurance 质量保证

Quality Test

Huijin's prepainted steel sheet lines are equipped with a large amount of online test instruments so that they can ensure and improve the quality of product. There also has a complete set of equipment and techniques for testing and controlling the performance of their prepainted steel products, which ensures Huijin's product quality to take a leading position among the fellow products at home and reach the international standard.

质量检测

汇金的彩涂机组装备了大量先进的在线测试仪器，以保证和提高产品的质量。并且有一套产品性能测试的设备和方法，对日常生产出的彩涂产品进行各有关性能的测试和控制，保证了产品质量达到国内领先水平和国际同类品的水平。



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Our project cases 我们的工程案例



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山东汇金是阿克苏诺贝尔唯一战略合作的民营企业

Shandong Huijin is the only strategic cooperative private enterprise with Akzo Nobel

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Greeting friends

I am Fiona Wang from Huijin Color Steel Company which was founded in 1988, we establish a strategic cooperative relations with Akzo Nobel to research and develop, produce and sell PPGI & PPGL Steel Coils together.

Akzo Nobel is the largest global paints and coatings company and global top 500 companies, In addition to supplying us paint for PPGI, they also provide technical and testing support, this will guarantee the quality of the product. For example both of us build a laboratory and share all kinds of test data.

The kinds of PPGI & PPGL including: PE, HDP, SMP, PVDF, Matte & Grain & Texture & Wrinkly Effect, "Cool Roof", "Antibiosis", "Self-Cleaning" and "Antistatic" Series.

Hope to find a way to cooperate with you. Your reply will be highly appreciated, let's talk more in details.

Thanks and Best Regards

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谢谢 Thank you

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