

石墨烯防腐卷（板）材

产品名称	石墨烯防腐卷（板）材
公司名称	湖北新成萃腾新材料有限公司
价格	40.00/个
规格参数	
公司地址	兴山县峡口镇平邑口工业园区
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产品详情

产品展示Product showroom

带石墨涂层的彩钢瓦包括中间层的基板，和两面均有涂刷的石墨浆料涂层。石墨涂层能够大幅度延长彩钢瓦使用寿命，解决了树脂瓦易老化、强度韧性低、不阻燃、重量大、难安装的问题；传统彩钢瓦带来的工厂高温，工作环境恶劣的问题；以及目前市场上细鳞片石墨大量积压、附加值低的问题；还能有效的增加室内外热交换率。

Caigang watts with graphite coating comprises a substrate in the middle layer, and graphite slurry coating formed on both sides. Graphite coating can greatly prolong the service life of Caigang watts, solving the aging, low strength and toughness, flame retardant, heavy weight, difficult installation problems of resin tile; the factory high temperature, poor working environment problems brought by the traditional steel tile; and the problem of currently on the market a large backlog of fine flake graphite, low added value; and effectively increase the indoor heat exchange rate.

技术背景Technical background

传统彩钢瓦又称彩色压型瓦，是采用彩色的涂层钢板冷弯成的各种波型的压型板。其颜色比较鲜艳靓丽，但是一接触酸雨等恶劣天气容易生锈成为废品，一般使用年限是3-5年，且导热系数低，只有0.041w/mk，这无疑给高温作业的厂房雪上加霜。彩钢瓦抗载承重能力较差，易损坏，瓦材本身质重，达到10-14公斤/平米，安装上也有难度。

Traditional Caigang watts, also known as color tile, is a variety of wave contour plate cold bended by Color coated steel plate. The color is bright and beautiful, but once contacted with acid rain and other inclement weather it becomes rusty scrap, average using age of which is 3-5 years, and thermal conductivity is very low, only 0.041w/mk. All these undoubtedly makes the high-temperature operation in factory a disaster after another. Load bearing capacity of color steel tile is poor, easy to damage, and the material itself is heavy, up to 10-14 kg / square meter, and the installation is

also difficult.

采用二层共挤技术生产的合成树脂彩钢瓦虽然在一定程度上抗腐蚀性增强，自重减轻，但由于自身材料的限制，它容易老化，剪切强度和拉伸强度相比传统钢板彩钢瓦有所降低，可燃不防火,导热系数低，散热能力差。

The synthetic resin tile produced by two layer coextrusion technology has a better corrosion resistance to a certain extent, and the dead-weight is enhanced. However, because of its limited material, it is easy to aging, and the shear strength and tensile strength compared to the traditional steel color steel tile has been reduced, not combustible fire, low thermal conductivity, heat-sinking capability is not very good.

由于市场上鳞片石墨微粉储量大，应用范围小，供大于求，因此石墨涂层的彩钢瓦可以大幅度降低产品原材料成本，解决石墨市场细鳞片附加值低、堆存量大的问题。另外，由于鳞片石墨微粉颗粒小，能够均匀的布满整个石墨浆料体系，因此涂刮复合石墨浆料薄层，让鳞片石墨成鱼鳞式排列，可以让产品的防腐和导热性能达到最优。钢坯表面质量粗糙，采用未经过表面处理的钢坯，既降低了材料成本，又可以让石墨浆料层与钢坯粘接复合地更加牢固。

The micro powder graphite has a large reservation on the market, the application range is small, oversupply, so the color steel tile with graphite coatings can greatly reduce the raw material cost of the product, solving the the problem of fine flake graphite ' s low added value, large amount of storage. In addition, the graphite micro particles is small and can be uniformly distributed throughout the graphite slurry system, so coating composite graphite slurry layer and making flake graphite into a fish scale type arrangement can make the corrosion protection and heat conduction of the product achieve optimal performance. The surface quality of the billet is rough, and the adopting billet without surface treatment can not only reduce the cost of the material, but also make the graphite slurry layer and the steel plate bonding more firmly.

石墨具有优越的耐酸碱性，抗腐蚀性，能够大幅度延长石墨涂层彩钢瓦的使用寿命；石墨材料本身具有阻燃性，石墨与钢坯板的复合解决了传统树脂瓦易老化，强度韧性低，不阻燃等问题；另外，钢坯密度远大于石墨浆料层密度，在保证钢坯板厚度满足产品整体强度要求下，合理控制两者厚度比例，达到产品质量最轻，可以解决传统彩钢瓦质重，安装难问题；最后，石墨高导热率能够有效的增加室内外热交换率，解决传统彩钢瓦带来的工厂高温，工作环境恶劣问题以及细鳞片石墨大量堆积，附加值低的问题。将石墨浆料与钢坯板复合，既继承了传统彩钢瓦的力学性能好、强度高优点，又弥补了传统彩钢瓦易腐蚀，易损耗，和树脂瓦易老化，易燃，热传导性差等缺点。

Graphite has excellent acid and alkali resistance, corrosion resistance, which can greatly extend the service life of the graphite coated steel tile; the graphite itself is flame retardant, composition of graphite and steel plate can solve the traditional resin tile ' s easily aging, low strength and toughness , not flame retardant and so on; in addition, the billet density is far greater than the graphite paste layer density. To ensure the overall strength of billet thickness to meet the product requirements, the reasonable control of the thickness ratio to ensure the quality of the products lightest can solve the traditional tile ' s heavy, difficult installation problems; finally, the high thermal conductivity of graphite can effectively increase the indoor heat exchange rate, solving the problem of factory high temperature, bad work environment , the accumulation low added value of a large number of fine flake graphite brought by traditional color steel. The composition of graphite slurry and steel plate coating not only inherited the traditional steel tile ' s good mechanical properties and higher strength, but also make up for the traditional steel tile ' s disadvantages of easy corrosion, easy loss, easy aging and resin tile, flammable, poor thermal conductivity etc.

将带石墨涂层的彩钢瓦与市场上现有的彩钢瓦进行对比，其性能见下表1。可见带石墨涂层的彩钢瓦寿命远超现有彩钢瓦，而且阻燃性能好，质量适中，强度韧性好，导热快。

Comparwe Caigang watts with graphite coating and the existing color steel tile on the market, the capacity is on the following table. It is shown that Caigang watts with graphite coating has much longer service life than the existing color

steel tile, and the flame retardant performance is better, the quality is moderate, the strength toughness is good, and the heat conduction is fast.

产品\指标

寿命/年

阻燃性能

重量

导热率

传统彩钢瓦

1-2

不燃

质重

高

树脂彩钢瓦

5-10

可燃

质轻

低

石墨彩钢瓦

20以上

适中

表1

Product index

Life / year

Flame retardancy

Weight

Thermal conductivity

Traditional color steel tile

1-2

noncombustible

Heavy

High

Resin color steel tile

5-10

Light

Low

Graphite color steel tile

20以上

Moderate