



方园耐磨胶板 FY ANTI-ABRASION RUBBER

方园(安徽)智能装备有限责任公司

Fangyuan (Anhui) Intelligent Mining Equipment Co.,Ltd.

总部地址: 中国·安徽·淮北相山区帝
景翰园翰邦国际广场12层

工厂地址: 中国·安徽·淮北杜集区龙
湖工业园云龙路18号

电 话: 400 096 1178

传 真: 86-561-4685556

网 址: www.ahfangyuan.com

邮 箱: ahfy@ahfangyuan.com

方园（安徽）智能装备有限责任公司

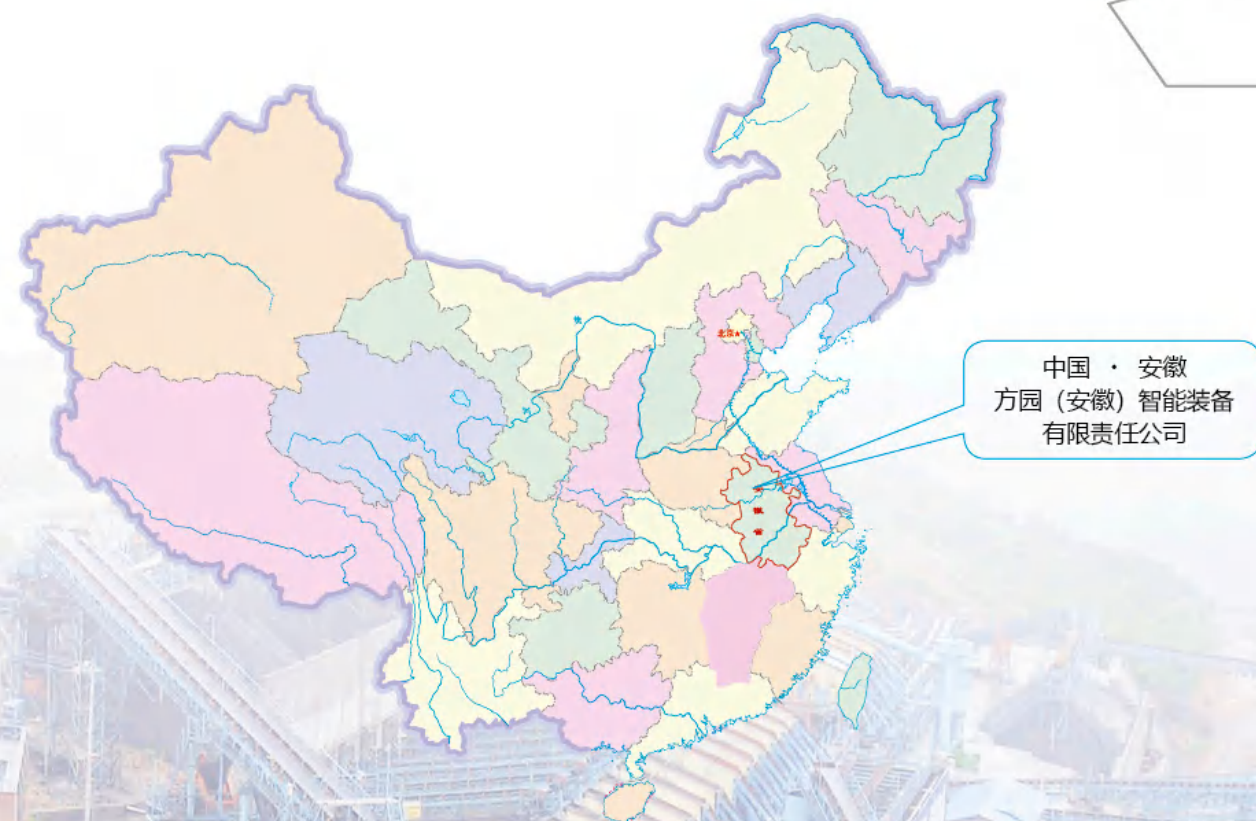
FANGYUAN (ANHUI) INTELLIGENT MINING EQUIPMENT CO.,LTD.



方园(安徽)智能装备有限责任公司

FANGYUAN (ANHUI) INTELLIGENT MINING EQUIPMENT CO.,LTD.

关于方园 → ABOUT FANGYUAN



中国 · 安徽
方园(安徽)智能装备
有限责任公司

价值观:诚信, 合力, 创新, 共赢。

Values: Integrity, Cooperation, Innovation, Win-Win.

使命:追求卓越品质, 助力矿业发展。

Mission: Pursue excellent quality and help the development of the mining industry.

愿景:以先进技术为依托, 做矿业筛分领域的引领者。

Vision: Relying on advanced technology, to be the leader in the field of mining screening.

公司产品覆盖金属矿山、非金属矿山、选煤、建材等多个行业, 方园公司成立伊始, 创建了科技研发中心, 组建科研团队。其中与北京航空航天大学合作研发的聚氨酯精细筛网获得两项国家发明专利, 与中国矿业大学、山东新汶集团新巨龙选煤厂联合开展的“降低重选下限粗精煤泥直接回收”的工艺技术研究获得“国家科技成果”奖。

The company's products cover metal mines, non-metal mines, coal preparation, building materials and other industries. At the beginning of its establishment,

AnhuiFangyuan established an enterprise R&D center with complete facilities and a high-level scientific research team. Among them, the polyurethane fine screen developed in cooperation with Beihang University has won two national invention patents, and the process technology research of "reducing the lower limit of gravity and direct recovery of coarse and fine coal slime" jointly carried out with China University of Mining and Technology and Xinjulong Coal Preparation Plant of Shandong Xinwen Group won the "National Scientific and Technological Achievement" Award.



国家专利技术认证

- 2008 年获得高新技术企业证书
- 2020 年工业领域节能环保产业市级优秀企业
- 2011 年荣获淮北市知名产品称号
- 2020 年获得企业信用评价 AAA 级信用企业
- 2013 年获得专精特新中小企业
- 2020 安徽股权托管交易中心专精特新板挂牌
- 2019 年获得市认定企业技术中心证书
- 荣获专利 36 项

- In 2008, obtained the high-tech enterprise certificate
- In 2020 Municipal Excellent Enterprises in Energy Conservation and Environmental Protection Industry in the Industrial Field
- In 2011, won the title of well-known products in Huaibei City
- In 2020, won the AAA grade credit enterprise of enterprise credit evaluation
- In 2013, won the title of Specialized Special New SME
- In 2020 Anhui Equity Custody Trading Center Specialized Special New Board Listed
- In 2019, awarded the certificate of Municipal Enterprise Technology Center
- Won 36 patents

产品简介

PRODUCT INTRODUCTION



方园（安徽）智能装备有限责任公司的前身是安徽方园塑胶有限责任公司，是专业生产橡胶产品的企业，拥有丰富的橡胶生产经验及解决方案，采用先进的湿法炼胶工艺，天然橡胶的含量达到了 95% 以上，使方园的耐磨橡胶胶板具备弹性好，强度大，抗拉扯耐磨性优越，耐腐蚀的能力强等特点，广泛应用于矿山、石油、化工等多个行业，用于筛机防腐耐磨内衬、旋流器内衬、泵内衬、软管内衬、阀门衬里、油罐衬里、搅拌槽衬里、浓密机衬里、管衬里、滑道衬里、传动带等。为客户带来很好的经济效益，降低维修成本。

Fangyuan (Anhui) Intelligent Mining Equipment Co., Ltd. was formerly Anhui Fangyuan Plastic &Rubber Co., Ltd. It is a professional manufacturer of rubber products with experience and solutions in rubber production. It adopts advanced wet rubber refining technology, and the content of natural rubber reaches more than 95%, so that Fangyuan's wear-resistant rubber sheets have good elasticity, high strength, excellent tensile and wear resistance, strong corrosion resistance, etc. They are widely used in mining, petroleum, chemical and other industries, and are used for anti-corrosion and wear-resistant linings of screen machines, cyclone linings, pump linings, hose linings, valve linings, oil tank linings, mixing tank linings, thickener linings, pipe linings, slide linings, transmission belts, etc. Bring good economic benefits to customers and reduce maintenance costs.



技术参数

TECHNICAL PARAMETERS

方园耐磨橡胶板的标准尺寸是 10m x 1.4m，标准厚度为 2-25mm，尺寸可定制。
The standard size of Fangyuan wear-resistant rubber sheet is 10m x 1.4m, the standard thickness is 2-25mm, and the size can be customized.

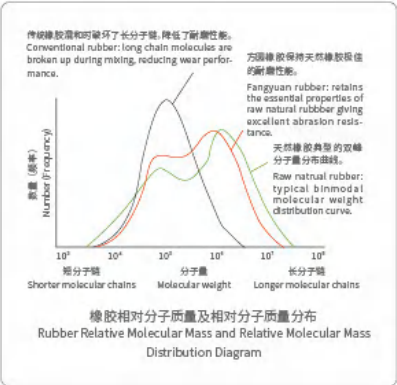
项目 Testing Item	标准 Testing Standard	单位 Unit	规格 Actual Specs.
硬度 Hardness	ISO7619-1:2010	Shore A	35
拉伸强度 Tensile Strength	ISO37:2011	Mpa	23
断裂伸长率 Elongation at Break	ISO37:2011	%	762
拉伸变形 Tensile Deformation	ISO37:2011	%	5
撕裂强度 Tear Strength	ISO34-1:2010	N/mm	67
回弹性 Resilience	ISO4662:2009	%	81
相对磨损体积 Relative Volume Abrasion	ISO4649:2010	mm ³ /40m	24
密度 Density	ISO2781:2008	g/cm ³	0.96

工艺流程

PROCESS

橡胶冷粘工艺 Rubber cold bonding process

配合方园自主研发的高强度专用粘合剂和冷粘工艺，方园耐磨橡胶可以为设备和设施提供更强大的保护。方园耐磨橡胶粘合剂粘接强度高、弹性好、耐冲击、抗振动、耐水、耐酸碱、耐老化，可以使方园橡胶在金属、皮革、塑料、织物、木材、陶瓷等多种材质表面牢牢生根。
Combined with Fangyuan's independently developed high-strength specialized adhesive and cold bonding process, Fangyuan wear-resistant rubber can provide stronger protection for equipment and facilities. Fangyuan wear-resistant rubber adhesive has high bonding strength, good elasticity, impact resistance, vibration resistance, water resistance, acid and alkali resistance, and aging resistance. It can firmly root Fangyuan rubber on surfaces of various materials such as metal, leather, plastic, fabric, wood, ceramics, etc.



湿法炼胶工艺 Wet rubber mixing process

方园耐磨天然橡胶的优越特性取决于先进的湿法炼胶工艺。经过多年努力及经验，方园找到了能与天然胶乳充分混合的橡胶助剂，并将先进的纳米补强技术应用于湿法炼胶工艺。不同于传统干法混炼工艺，方园的湿法炼胶工艺不仅做到了节能、降耗、安全、减排，还解决了传统工艺中无机填料分布不均、局部团聚现象严重的问题，在最大程度上保护了天然橡胶的分子结构，保留了天然橡胶的高弹性、高耐磨性等宝贵特性，赋予了方园耐磨橡胶优异的物理性能和耐磨性能，使耐磨橡胶制品的使用寿命明显延长。
The superior properties of Fangyuan's wear-resistant natural rubber depend on the advanced wet rubber mixing process. After years of hard work and experience, Fangyuan has found rubber additives that can be fully mixed with natural latex, and applied advanced nano-reinforcement technology to the wet rubber mixing process. Different from the traditional dry mixing process, Fangyuan's wet rubber mixing process not only achieves energy saving, consumption reduction, safety, and emission reduction, but also solves the problems of uneven distribution of inorganic fillers and serious local agglomeration in traditional processes, protects the molecular structure of natural rubber to the greatest extent, retains the valuable properties of natural rubber such as high elasticity and high wear resistance, and gives Fangyuan wear-resistant rubber excellent physical properties and wear resistance, which significantly extends the service life of wear-resistant rubber products.

产品优势 →

PRODUCT ADVANTAGES

得益于先进的湿法炼胶工艺，方圆耐磨天然橡胶的分子成分中含有较大比例的高分子量长链，这赋予其强大的抗拉伸特性和回弹能力，使得天然橡胶成为渣浆环境下最优秀的耐磨材料。方圆耐磨天然橡胶具备物理性能优越、耐磨止损、节能降噪、耐腐蚀、使用周期超长的特点。

Due to the advanced wet rubber refining process, the molecular composition of Fangyuan wear-resistant natural rubber contains a large proportion of high molecular weight long chains, which gives it strong tensile strength and resilience, making natural rubber the best wear-resistant material in slurry environment. Fangyuan wear-resistant natural rubber has the characteristics of superior physical properties, wear resistance, energy saving and noise reduction, corrosion resistance, and ultra-long service life.

物理性能优越 Excellent physical properties

1

方圆耐磨天然橡胶弹性好、强度大、抗拉扯、抗割裂、耐磨性能优越，可以有效地保护设备或设施表面，延长设备或设施的使用寿命。

Fangyuan wear-resistant natural rubber has good elasticity, high strength, and excellent tensile and cut resistance and wear resistance. It can effectively protect the surface of equipment or facilities and extend the service life of equipment or facilities.

2

超长使用周期 Ultra-long service life

方圆耐磨橡胶的优异耐磨性能使其拥有超长的使用周期，是普通非天然橡胶或其他材质衬里的四倍，让用户更换橡胶衬里的频率大幅度降低，一方面大大降低了重复采购的成本，另一方面减少停机维护次数、缩减停机维护时间，大大提高了用户收益。

The excellent wear resistance of Fangyuan wear-resistant rubber enables it to have an ultra-long service life, which is four times that of ordinary non-natural rubber or other material linings. It allows users to significantly reduce the frequency of replacing rubber linings, which greatly reduces the cost of repeated purchases on the one hand, and reduces the number of downtime maintenance and the time of downtime maintenance on the other hand, greatly improving user benefits.

3

耐腐蚀能力强 Strong corrosion resistance

方圆耐磨橡胶有极强的耐腐蚀能力，可以广泛适用于矿山、化工、石油等多种行业的腐蚀性环境。Fangyuan wear-resistant rubber has extremely strong corrosion resistance and can be widely used in corrosive environments in various industries such as mining, chemical, and petroleum.

4

耐磨止损节能降噪 Wear-resistant, loss-stopping, energy-saving and noise-reducing

优良的耐磨性能和弹性不仅能够降低渣浆环境下颗粒对橡胶的磨损，还能够节能降噪。在渣浆环境下，当磨蚀性颗粒撞击铸石、复合陶瓷、合金等刚性表面时，动能转化为冲击力，产生巨大的摩擦力不仅对刚性表面造成创痕，还会产生噪音；而当磨蚀性颗粒撞击弹性橡胶表面，橡胶受挤压变形，把大部分动能返还颗粒，从而避免了磨损。Excellent wear resistance and elasticity can not only reduce the wear of particles on rubber in slurry environment, but also save energy and reduce noise. In slurry environment, when abrasive particles hit rigid surfaces such as cast stone, composite ceramics, alloys, etc., the kinetic energy is converted into impact force, generating huge friction force that not only causes scars on the rigid surface, but also generates noise; when abrasive particles hit the elastic rubber surface, the rubber is squeezed and deformed, returning most of the kinetic energy to the particles, thus avoiding wear.

方圆橡胶衬里特征 Fangyuan Rubber Lining Characteristic

- | | |
|------------------------|--|
| 1. 杰出的湿式耐磨特性 | 1. Outstanding wet abrasion resistance. |
| 2. 极好的弹性 | 2. Excellent elasticity. |
| 3. 显著的抗切割、撕扯特性 | 3. Significant resistance to cutting and tearing. |
| 4. 永久残余变形小 | 4. Significant resistance to cutting and tearing. |
| 5. 耐多种化学物质腐蚀布 | 5. Small permanent residual deformation Resistant to corrosion from various chemical substances. |
| 6. 电阻抗性能好 | 6. Good electrical impedance performance |
| 7. 减震降噪、消声特性 | 7. Shock absorption, noise reduction, and silencing characteristics |
| 8. 柔韧性好（即使在低温），便于加工和安装 | 8. Good flexibility (even at low temperatures), easy to process and install |

方圆公司从马来西亚引进的技术，设计制作橡胶衬层，密封件和定型产品，可针对用户的不同用途，提供相应的橡胶材料。

方圆橡胶的卓越性能已在全国各地实际应用中得到证明。该产品与金属或其它耐磨材料相比，大大减少了磨损造成的计划外维护。

Fangyuan can design and tailor make rubber linings, seals and moduled products with imported technology from Malaysia to meet the requirements of various customers. Excellent properties of Fangyuan rubber has been proved by application all around China. Compared with other wear resistant materials, it can reduce frizzle charges as result of wear greatly.



方园抗臭氧的纯天然橡胶

Fangyuan anti-ozone natural rubber

- 耐候性和抗臭氧性强
- 弹性好
- 极好的耐滑动磨蚀特性
- 抗切、抗扯强度高
- 较低的永久变形和极好的柔软性
- 良好的减震降噪性
- 电阻抗性好
- Good anti-climate and anti-ozone property.
- Good elasticity.
- Excellent anti abresiveness.
- High shear and teat strength.
- Lower permanent deformation and excellent flexibility.
- High shock-absorption capability.
- Good electrical resistant.



方园产品的应用 Application of Fangyuan products

广泛用于处理各种磨蚀性物料的衬层,定制的结构件或铸模件,使用性能可靠。还可用于降低噪音,改善工作环境,减轻劳动者疲劳。
Widely used for handling corrosive materials with du-rable properties also used for reducing noise and improving working conditions.

方园橡胶衬里 Fangyuan rubber linings

根据工程实际,方园公司提供最佳的施工方法,可在方园公司或派人到现场进行橡胶衬里施工。此外,可提供高质量的粘合剂和耐腐衬板,由用户自己包胶衬里。
According to the practical situation, Fangyuan company can provide best processing method, to rubberize the linings can be finished in our company or in the field, Fangyuan can also provide the customers with good quality adhesive and wear-resistant linings, then the customers will finish the rubberizing process by themselves.

皮带运输机配件 Strap parts for conveyor

方园耐磨橡胶备受称赞的应用是皮带运输机滚筒防护衬套,防止打滑、物料粘结和皮带跑偏,延长皮带寿命。其它应用包括耐磨弹性橡胶刮屑板、托辊耐磨护套受料斗密封挡边和皮带运输机受料点防冲砸装置。
Fang yuan wear-resistant rubber mainly used for manufacture protective linings for conveyor rollers to avoid slip-ping. Fangyuan rubber can also be used for producing wear-resistant rubber scrapper roller,sleeve,baffle and anti shock units.

旋流器 Cyclone



大型旋流器全部采用耐橡胶内衬,集料斗贴柔性胶板。彻底解决耐磨问题。
All large cyclones are lined with durable rubber, and the collection hopper is covered with flexible rubber sheets. Thoroughly solve the problem of wear resistance.

阀门 Valve

方园耐磨衬胶阀特别适于处理磨(腐)蚀性的液体和固体,具有手动气动和液压操作方式。并提供适于各种规格阀体的耐磨橡胶套阀。
Fangyuan wear resistant rubber lined valve is ideal for handling corrosive or abrasive liquid and solid . The valve can be manual, pneumatic or hydraulic. Fangyuan can also supply wear resistant rubber valve for various value body.

产品应用 →→

APPLICATION

