



镁质材料系列、装配式房屋系列
(内外墙、屋顶、地面材料及模块化房屋)、
新型建材系列(混凝土、混凝土外加剂、砂浆、PC)
Magnesium material series, prefabricated housing series
(interior and exterior walls, roofs, floor materials and modular houses),
New building materials series (concrete, mixed soil admixtures, mortar, PC prefabricated components)

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江苏蓝圈新材料股份有限公司
JIANG SU LAN QUAN NEW MATERIAL CO.,LTD

百瑞吉-羟丙基甲基纤维素

BRJ-HYDROXYPROPYL METHYLCELLULOSE

羟丙基甲基纤维素(HPMC)是一种非离子型的纤维素醚聚合物，根据取代基团的取代程度以及改性程度的不同，它们具有不同的化学性质，它是一种非离子型、无味、无嗅的白色纤维素醚粉末。百瑞吉-羟丙基甲基纤维素(HPMC)可用于建筑材料、工业涂料、陶瓷、纺织、农业日化等领域。

Hydroxypropyl methyl cellulose (HPMC) is a non-ionic cellulose ether polymer, according to the degree of substitution of the substituent group and the degree of modification, they have different chemical properties, it is a non-ionic, tasteless white cellulose ether powder. BRJ-hydroxypropyl methyl cellulose (HPMC) can be used in building materials, industrial coatings, ceramics, textiles, agrochemicals and other fields.

| 牌号 BRAND | BRJ | |
|--|--|--|
| | D-60 | 00-7 |
| 外观 Appearance | 白色或微黄色粉末状固体 White or yellowish powdered solid | 白色或微黄色粉末状固体 White or yellowish powdered solid |
| 羟丙基 Hydroxypropoxy(wt%) | 7.0-12.0 | 4.0-12.0 |
| 甲氧基 (Hydroxypropoxy(wt%) | 28.0-30.0 | 9.0-24.0 |
| 目数 Methoxy | 100%通过 80 目 | 100%通过 80 目 |
| pH 值 pH Value | 6.0-8.0 | 6.0-8.0 |
| 含水量 Water content | After 5 | 5 |
| 凝胶温度 Gel temperature(C) | 58-65 | 70-90 |
| 粘度(2%水溶液20°C,Mpa.s)Viscosity (2% aqueous solution, 20°C, pa. s) | 5-200000 | 5-200000 |

理化性质 PHYSICAL AND CHEMICAL PROPERTIES

- 1、碳化温度: 280-300°C
- 2、变色温度: 190-200°C
- 3、密度: 370-380g/l
- 4、表面张力: 2%水溶液为42-56dyn/cm
- 5、溶解性能: 溶于水及部分溶剂, 如适当比例的乙醇/水、丙醇/水等。
- 6、无离子电荷: 纤维素属非离子型, 不与金属盐和离子有机物结合生成不溶性沉淀物。
- 7、热凝胶作用: 纤维素的水溶液被加热到一定温度时会形成凝胶, 所形成的凝胶在冷却后又重新变成溶液。
- 8、代谢惰性: 纤维素可用作食品和药物的添加剂, 它们不会被代谢, 在食物中不会提供热量。
- 9、PH值稳定性: 具有广泛的PH值范围。
- 10、保水性和保水能力: 纤维素具有优异的保水性, 使得水分不易快速流失或基材过快吸收。一些特殊牌号的产品在高温环境下还能很好的工作。
- 11、增稠: 其水溶液体系具有增稠性, 增稠度与所使用的产品的粘度和化合物类型有关。
- 12、成膜: 可制成洁纯、坚韧、柔软的薄膜, 并具有优良的抗油脂性。
- 13、粘合: 可作为颜色、烟草产品、纸张等的粘合剂, 具有优良功能, 还可用于涂料中。
- 14、悬浮: 可防止固体颗粒沉淀出来, 因为可抑制沉渣的形成。
- 15、保护胶体: 可防止小粒和颗粒呈团块状。
- 16、乳化: 因减低表面和界面张力以及增稠水相, 故可稳定乳状液体。
- 17、抗流挂: 可改善产品的触变性, 使得产品在相当厚度时也不会产生滑移。
- 18、润湿能力: 纤维素具有润湿基材的性能, 即使适用于特殊基面上, 也不会出现打卷的现象。
- 19、开放时间: 可延长产品的硬化时间, 使原材料充分水化, 提高产品的拉拔强度和柔韧性。

- 1、Carbonization temperature: 280-300°C
- 2、Discoloration temperature: 190-200°C
- 3、Density: 370-380g/l
- 4、Surface tension: 2% aqueous solution is 42-56dyn/cm
- 5、Solubility: soluble in water and some solvents, such as appropriate proportion of ethanol/water, propyl alcohol/water, etc.
- 6、no ionic charge: cellulose is non-ionic, does not combine with metal salts and ionic organic matter to produce insoluble precipitates.
- 7、hot gel action: when the cellulose aqueous solution is heated to a certain temperature, it will form a gel, and the formed gel will become a solution again after cooling.
- 8、Metabolic inertia: Cellulose can be used as an additive in food and medicine, they are not metabolized and do not provide calories in food.
- 9、PH stability: A wide range of PH values.
- 10、Water retention and water retention ability: cellulose has excellent water retention, making it difficult to lose water quickly or absorb the substrate too quickly. Some special grades of products work well at high temperatures.
- 11、Thickening: its aqueous solution system has thickening properties, and the consistency is related to the viscosity of the product used and the type of compound.

应用领域 APPLICATION FIELD

砂浆领域: 增稠保水改善施工性。
 粘结剂: 在粘结剂配方中作为增稠剂兼粘料。
 农药: 喷雾粘附剂、保护膜的可湿性粉料的分散剂。
 陶瓷: 赋予润滑性、保水性并提高坯料原始强度。建筑材料渗入水泥中, 使水泥砂浆、灰浆和石膏配料等具有保水性能, 并提高其和易性。
 化妆品: 调节流变性, 使产品具有适当的粘度, 乳化度、稳定性、润滑性和泡沫稳定性以及表面活性剂的相容性。
 皮革: 利于其热凝胶性能作为皮革加工干燥时革面保护胶料的增稠剂和保水剂。
 乳胶涂料: 作为保护胶体、增稠剂和颜料分散剂。
 脱漆剂: 利于其水和有机溶剂的兼容性, 在刮涂型和冲洗型脱漆剂中做增稠剂。
 纸制品: 表面施胶或防油涂层的成膜剂。
 胶合板: 调节粘结剂的流变性。
 各种树脂和橡胶: 纤维增强塑料成型脱模剂、水基涂料乳化剂、增稠剂和稳定剂。
 纺织品: 作为纺织品浆料; 印染色浆或乳胶涂料中的增稠剂和稳定剂。

储存和运输 STORAGE AND TRANSPORTATION

BRJ叫羟丙基甲基纤维素属于具有吸湿性和吸水性的聚合物粉末, 其储存和运输的过程应以原包装的形式, 且保持阴凉干燥。在生产使用过程中, 一旦打开原包装, 必须采取再密封的措施以避免水分的入侵。

保质期 SHELF LIFE

阴凉干燥处, 至少两年。对于超出保质期的产品, 使用前应做验证试验确定。

产品安全 SHELF LIFE

按照国家关于危险物质的法律及备案, BRJ羟丙基甲基纤维素不属于危险物质。更进一步的安全方面的信息, 请参见其材料安全数据单。

Mortar field: Thickening water retention to improve workability.
 Binder: Used as thickener and binder in binder formulations.
 Pesticide: dispersant of spray adhesive, wettable powder of protective film.
 Ceramics: give lubricity, water retention and increase the original strength of the billet. Building materials penetrate into the cement, making the cement mortar, mortar and gypsum ingredients have water retention properties and improve their workability.
 Cosmetics: Regulate rheology so that the product has the appropriate viscosity, emulsification, stability, lubricity and foam stability and the compatibility of surfactants.
 Leather: Beneficial to its thermal gel properties as a thickener and water retaining agent for leather surface protection adhesive during leather processing and drying.
 Latex: coatings: as a protective colloid, thickener and pigment dispersant.
 Paint stripper: For compatibility with water and organic solvents, as a thickener in scrape and rinse stripper.
 Paper products: film forming agents for surface sizing or oil-proof coatings
 Plywood: regulating the rheological properties of binders.
 Various resins and rubbers: molding release agents for fiber-reinforced plastics, emulsifiers for water-based coatings, thickeners and stabilizers.
 Textiles: as textile sizing materials; Thickeners and stabilizers in printing and dyeing pastes or latex coatings.
 BRJ is a hygroscopic and water-absorbing polymer powder, which should be stored and transported in its original packaging and kept cool and dry. During the production process, once the original package is opened, resealing measures must be taken to avoid water intrusion.
 Cool, dry place for at least two years. For products beyond the shelf life, validation tests should be done before use to determine.
 According to the national laws and records on dangerous substances, BRJ hydroxypropyl methyl cellulose is not a dangerous substance.
 For further safety information, see their Material Safety data sheet.

百瑞吉-功能性纤维素

BRJ – FUNCTIONAL CELLULOSE

石膏系统 GYPSUM SYSTEM

◆ 纤维素用于石膏基产品中,可以使石膏产品具有更高的施工效率,节约时间和减少成本。

◆ 提高石膏产品性能。

◆ 生产个性化需求的石膏产品。

◆ Cellulose used in gypsum based products can make gypsum products have higher construction efficiency, saving time and reducing costs.

◆ Improve gypsum product performance.

◆ To produce gypsum products for individual needs.

| 石膏砂浆 gypsum mortar | 添加量 addition | 主要特性 Main characteristics |
|---------------------------|--------------|---|
| 粉刷石膏 Paint gypsum | 0.03%-0.15% | 良好的操作性, 优异的浆体稳定性, 减少分层泌水 Good operability, excellent slurry stability, reduce stratified bleeding |
| 石膏腻子 Gypsum putty | 0.03%-0.15% | 良好的操作性, 改善基面的润湿能力 good operability, improve the base surface wetting ability |
| 机喷石膏 Machine spray gypsum | 0.03%-0.15% | 增加可泵送性, 降低劳动强度, 抗流挂, 降低干燥干裂 increase pumpability, reduce labor intensity, Anti-current hanging, reduce dry cracking |

砌筑抹灰系统 MASONRY PLASTERING SYSTEM

BRJ纤维素用于高品质的干混砂浆中,可以使砂浆。

◆ 提高的施工效率。

◆ 节约时间, 金钱和原料。

◆ 满足高品质的标准要求。

BRJ cellulose is used in high quality dry mix mortars and can make mortars.

◆ Improved construction efficiency.

◆ Save time, money and materials.

◆ Meet the requirements of high quality standards.

| 抹灰和砌筑砂浆 plastering and masonry mortar | 添加量 addition | 主要特性 Main characteristics |
|--|--------------|--|
| 砌筑砂浆 Masonry mortar | 0.03%-0.15% | 良好的塑形性, 优异的粘结性, 减少落地灰 good shape, excellent adhesion, reduce falling ash |
| 抹灰砂浆 Plaster mortar | 0.03%-0.15% | 良好的操作性, 良好的抗流挂性 good operability, good resistance to flow hanging |
| 机喷抹灰砂浆 Machine spray plastering mortar | 0.03%-0.15% | 良好的操作性, 较高的浆体稳定性, 不空鼓, 抗流挂性 good operability, high slurry stability, no empty drum, anti-hanging |

自流平砂浆系统 SELF-LEVELING MORTAR SYSTEM

BRJ纤维素用于自流平砂浆中具有高效保水功能,可以使砂浆。

◆ 防止浆料沉淀, 泌水。

◆ 浆料的流动效果, 便于施工。

◆ 浆料流平后的表面效果更好, 降低砂浆收缩, 避免发生裂纹。

BRJ cellulose used in self-leveling mortar has an efficient water retention function, which can make the mortar.

◆ Prevent slurry precipitation and bleeding.

◆ Slurry flow effect, easy to construction.

◆ The surface effect of the slurry leveling is better, reducing the shrinkage of the mortar and avoiding cracks.

| 自流平砂浆系统 self-leveling mortar system | 添加量 addition | 主要特性 Main characteristics |
|---|--------------|---|
| 薄层水泥基自流平砂浆 Thin layer of cement base Self-leveling mortar | 0.1%-0.3% | 较好的流平性, 抗离析, 优越的拉伸粘结强度和抗压强度, 优异的耐磨性 good leveling, anti-segregation, superior tensile bond strength and Compressive strength, excellent wear resistance |
| 石膏基厚层自流平砂浆 Gypsum base thick layer Self-leveling mortar | 0.1%-0.3% | 较好的流平性, 高分散性, 优异的流动性, 优异的耐磨性 good leveling, high dispersion, excellent fluidity, Excellent wear resistance |

瓷砖粘结剂 CERAMIC TILE BINDER

BRJ纤维素在瓷砖粘结剂中,可以使砂浆。

- ◆ 提高产品的保水性。
- ◆ 延长校正时间和开放时间。
- ◆ 能够减少结膜, 滑移和下垂。

BRJ cellulose in tile binder can make mortar.

- ◆ Improve product water retention.
- ◆ Extend calibration time and opening time.
- ◆ Can reduce conjunctiva, slip and sag.

| 瓷砖粘结剂 ceramic tile binder | 添加量 addition | 主要特性 main characteristics |
|---|--------------|---|
| 普通型瓷砖粘结剂 Ordinary ceramic tile binder | 0.2%-0.3% | 出色的的操作性, 良好的耐热性, 较高的强度 excellent operability, good heat resistance, high strength |
| 标准型瓷砖粘结剂 C1/C1 Standard ceramic tile binder C1/C1T | 0.3%-0.4% | 较长的开放时间, 优异的耐热性, 良好的抗滑移性, excellent heat resistance, good slip resistance, Excellent construction |
| 优质型瓷砖粘结剂 C2/C2T High quality ceramic tile binder C2/C2T | 0.35%-0.50% | 增加可泵送性, 降低劳动强度, 抗流挂, 降低干燥干裂 Increase pumpability, reduce labor intensity, Anti-current hanging, reduce dry cracking |

瓷砖勾缝剂 CERAMIC TILE STITCHING AGENT

勾缝剂用于填充瓷砖缝隙, 起粘结的防渗作用, BRJ纤维素能够使勾缝剂具有。

- ◆ 良好的粘合性。
- ◆ 良好的抗渗性能。
- ◆ 低收缩率。
- ◆ 施工性优良。

The caulking agent is used to fill the crevices of ceramic tiles and plays the anti-seepage role of bonding. BRJ cellulose can make the caulking agent have.

- ◆ Good adhesion.
- ◆ Good impermeability.
- ◆ Low shrinkage.
- ◆ Excellent construction.

| 瓷砖勾缝剂 ceramic tile jointing agent | 添加量 addition | 主要特性 Main characteristics |
|-----------------------------------|--------------|---|
| 勾缝剂 Pointing agent | 0.06%-0.08% | 施工性, 低收缩率, 粘结性, 抗霉变 workability, low shrinkage, adhesion, anti-mildew |

腻子 PUTTY

腻子的配方需要添加纤维素来提高施工性和一些力学性能, BRJ纤维素能够显著的实现这些目标。

- ◆ 防止浆料沉淀, 泌水。
- ◆ 浆料的流动效果, 便于施工。
- ◆ 优异的耐高温性。
- ◆ 抗开裂、提高强度。

The putty formula requires the addition of cellulose to improve the constructability and some mechanical properties, and BRJ cellulose can significantly achieve these goals.

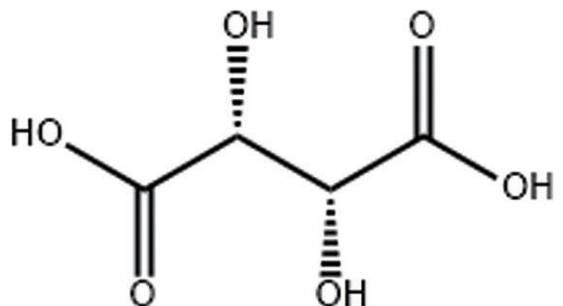
- ◆ Prevent slurry precipitation and bleeding.
- ◆ Slurry flow effect, easy to construction.
- ◆ Excellent high temperature resistance.
- ◆ Anti-cracking, improve strength.

| 腻子 putty | 添加量 addition | 主要特性 main characteristics |
|---|--------------|--|
| 普通腻子 Ordinary putty | 0.3%-0.5% | 良好的和易性, 优异的施工性 good workability, excellent constructability |
| 耐高温型腻子 High temperature resistant putty | 0.3%-0.5% | 优异的耐高温性能, 良好的操作性 excellent high temperature resistance, good operability |
| 超薄型腻子 Ultra-thin putty | 0.3%-0.5% | 高保水, 塑形效果好, 易施工 high water retention, good molding effect, easy construction |

L(+)-酒石酸

L(+)-TARTARIC ACID
CAS NO: 87-69-4

分子式 FORMULA: C4H6O6



| 应用类别及登记证号 | 功能和用途 | 执行标准 |
|------------------------------|--|--|
| 食品添加剂 | 在食品中作为酸度调节剂使用, 用于油炸面制品、固体复合调味料、植物蛋白饮料复合蛋白饮料、碳酸饮料、茶、咖啡、植物(类)饮料、特殊用途饮料、风味饮料、葡萄酒、糖果等。 | GB 25545-2010, 同时满足FCC、USP、EP、BP、日本食品添加物公定书、E334 等国际标准的有关指标。 |
| 药用辅料 CDE 登记号:F20200000354 | 药用辅料, PH调节剂和泡腾剂等。 | 《中国药典》2020 年版四部 |
| 工业原料 | 用在自流平水泥、石膏行业中作为缓凝剂使用; 亦可用作媒染剂、鞣剂等。 | 企业标准或定制 |

| Application Category & Registration Number | Function And Purpose | Implementation Standards |
|--|--|--|
| Food Additives | Used in foods as an acidity regulator, used for fried flour products, solid compound seasonings, vegetable protein drinks, compound protein drinks, carbonated drinks, tea, coffee, vegetable drinks, special purpose drinks, flavored drinks, wine, candies, etc. | GB 25544-2010, also meets the international standards of FCC、USP、EP、BP、JSFA、E334, ect. |
| Pharmaceutical Excipients CDE NO:F20200000354 | Pharmaceutical excipients, pH regulator and effervescent agent, etc. | Chinese Pharmacopoeia, 2020 edition of four |
| Industrial Raw Materials | Used in self leveling cement and gypsum industry as a retarding agent; Used as mordant, tanning agent, etc. | Enterprise standard or customization. |

| | 食品添加剂 | 药用辅料 | 工业原料 |
|-------------------------|---|--|---|
| 产品展示 Product Display | | | |
| 包装 Packaging | 25Kg复合纸袋内衬聚乙烯袋包装, 20'集装箱打托可装20吨。 | 25Kg/袋, 药用低密度聚乙烯袋包装。 | 25KG 复合纸袋内聚乙烯袋包装或根据客户要求。 |
| Packaging | 25kg net in kraft/plastic bag lined with PE bag, 20MT/20FCL(on pallet). | 25kg net in medical use low density polyeth-ylene bag, | 25kg net in kraft/plastic bag lined with PE bag or in accordance with customer's requirements |
| 储存 Storage | 贮存于常温、干燥的库房内。防潮、防日晒、防雨淋防止与有害有毒物质混存。 | 遮光, 密封保存 | 贮存于常温、干燥的库房内。防潮、防日晒、防雨淋防止与有害物质混存。 |
| Storage | Stored in dry warehouse with room temperature. Keep away from moisture, direct sunlight and rain, and prevent mixing with toxic and harmful substances. | Keep airtight and away from direct sunlight. | Stored in dry warehouse with room temperature. Keep away from moisture, direct sunlight and rain, and prevent mixing with toxic and harmful substances. |