

CELLULOSE ETHER
盛德化工
SIDLEY CHEMICAL CO., LTD

HPMC \ CMC \ HEC \ EC \ MC \ HPC



SIDLEYCHEM[®]

SIDLEY CHEMICAL CO., LTD

盛德化工有限公司是专业从事纤维素醚生产、销售和出口贸易为一体的生产厂家。作为世界一流的纤维素醚供应商之一，我们的产品广泛应用于食品、医药、涂料、建筑、陶瓷、石油钻井、造纸印刷、洗涤剂等行业。

在成熟的制造技术条件下，盛德化工有限公司有效地控制成本，拥有更具竞争力的产品。盛德化工致力于新产品的研发，使产品得到广泛应用，并为广大客户提供技术服务。

Sidley Chemical Co.,Ltd is specialized in cellulose ether production, sales and export trade as one of the manufacturer. As one of the world top-level supplier for cellulose ether, our products can be widely used in Food, Pharmaceuticals industry, Paints & Coating, Construction, Ceramics, Oildrilling, Papermaking and Printing Industry and Detergent etc.

Under mature manufacturing technique, Sidley Chemical controls the cost effectively and possess more excellent competitive products compared with other companies. Sidley Chemical makes great efforts to research new products in order to make the products widely used and supply the technology service for all customers.





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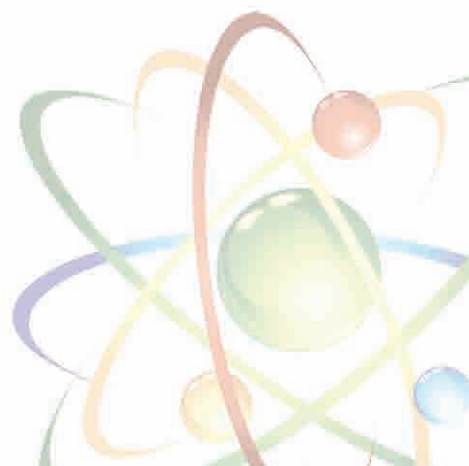
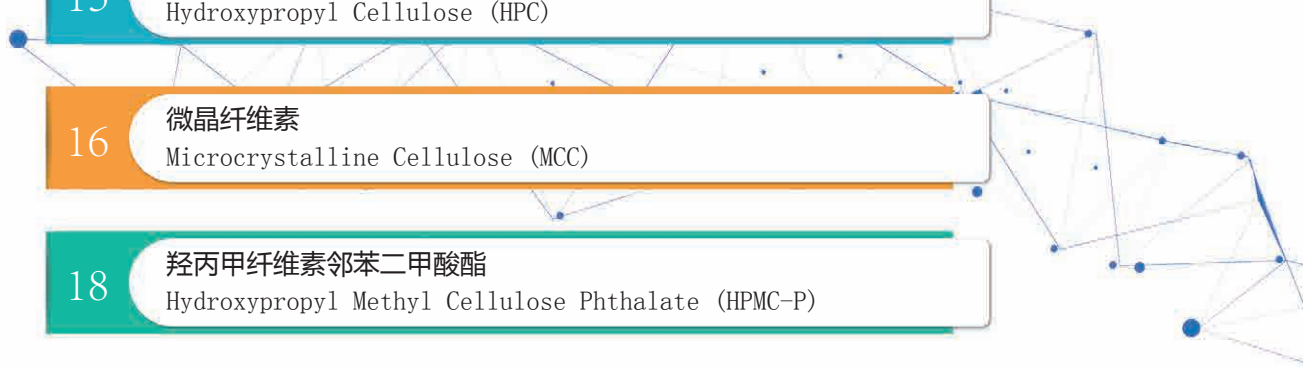
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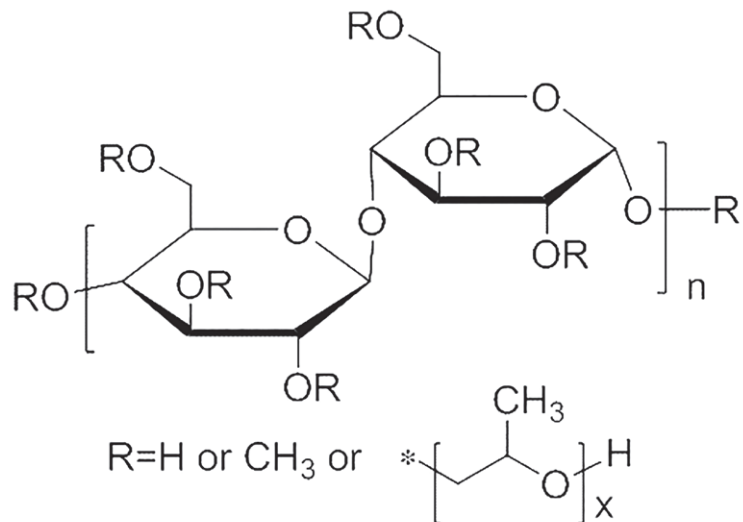
羟丙基甲基纤维素醚

Hydroxypropyl Methyl Cellulose(HPMC)

产品简介 Brief Introduction

羟丙基甲基纤维素是以天然棉纤维为原料，经一系列化学加工而制成的非离子型纤维素醚。它们是一种无嗅，无味，无毒的白色粉末，能溶解于冷水，形成透明的粘稠溶液具有增稠，粘合，分散，乳化，成膜，悬浮，吸附，凝胶，表面活性，保持水分和保护胶体的特性。

SidleyCel® Hydroxypropyl Methyl Cellulose (HPMC) is non-ionic cellulose ether made from natural cotton fiber under series of chemical processing. It's odorless, tasteless and non-toxic white powder, can be dissolved in cold water to form a transparent viscous solution with the properties of thickening, binding, dispersing, emulsifying, film coating, suspending, absorbing, gelling, water retention and colloid protection.



理化性质 Physical and Chemical Specification

规格 Specification	E(2910)	F(2906)	K(2208)
凝胶温度 Gelling temperature (°C)	58-64	62-68	68-90
甲氧基 Methoxy (WT%)	27.0-30.0	27.0-30.0	19.0-24.0
羟丙基 Hydroxypropoxy (WT%)	7.0-12.0	4.0-7.5	4.0-12.0
粘度 Viscosity (2WT% Solution)	3, 5, 6, 15, 50, 4000, 10000, 30000, 50000, 70000		

医药级 Pharmaceutical Grade HPMC

型号 Type	粘度 Viscosity	备注 Remark
E5	4-5.5	2910(E)
E6	5.6-7.0	
E15	12.1-18.0	
E4M	3000-5000	
K100	91-120	2208(K)
K4M	3000-5000	
K100M	80000-120000	

本品为多用途药用辅料，可作为增稠剂，分散剂，乳化剂和成膜剂等。在药物片剂中作为薄膜包衣，粘合剂，可显著提高药物的溶出度。还可以作为助悬剂应用于混悬剂，作为基质材料应用于眼用制剂等。

HPMC is a multi-functional pharmaceutical adjuvant which can be used as thickener, dispersant, emulsifier and film-forming agent. As film coating and binder, it can improve the dissolution rate of drugs. It can also be used as a suspension aid, host material in ophthalmic preparations and etc.



建筑级 Construction Grade HPMC

SdielyCel	粘度 Viscosity	应用 Applications
MPB 40M	250-550CPS(Brookfield,2%.20°C)	自流平 Self leveling
MPC 40TS	42000-50000CPS(Brookfield,2%.20°C)	腻子 Plaster/putty
MPC 60TS	60000-70000CPS(Brookfield,2%.20°C)	瓷砖胶 Tile adhesive
MR 24163	55000-65000CPS(Brookfield,2%.20°C)	石膏基产品 Gypsum-based products

施工性：纤维素醚提供合适的粘度，塑性好，易于施工。

Excellent workability: provide suitable viscosity, good plasticity and easy for construction.

保水性：纤维素醚可以使浆料充分水化，延长施工时间，避免产生龟裂。

Good water retention: make the slurry fully hydrated, extend the open time and avoid cracking.

抗流挂性：纤维素醚可以使浆料牢固地粘着在表面，不会流挂。

Good slipping resistance: make slurry adhere to the surface strongly to prevent slipping.



日化级 Detergent Grade HPMC

SdielyCel	粘度 Viscosity	应用推荐 Applications
MR D901	>60000CPS(Brookfield,2%.20°C)	液体洗涤剂 Liquid Detergent
MR D902	>60000CPS(Brookfield,2%.20°C)	液体洗涤剂 Liquid Detergent

羟丙基甲基纤维素醚 (HPMC) 可以在各类型的表面活性剂体系中提供粘度。其表面经过独特的处理，可以迅速的溶解于水中，溶解过程中不结团、不絮凝、不沉淀。

SidleyCel® Hydroxypropyl Methyl Cellulose (HPMC) can provide viscosity in all types of surfactant system. The powder surface has been treated through unique process, so it can be dissolved in the water quickly and has no agglomeration, flocculation or precipitation during dissolution.



羧甲基纤维素钠

Sodium CarboxyMethyl Cellulose (CMC)

产品简介 Brief Introduction

羧甲基纤维素钠 (CMC) 是以天然棉纤维为主要原料, 通过碱化, 醚化, 纯化, 干燥, 粉碎或制粒工艺, 而制成的阴离子型纤维素醚产品。CMC 外观为白色粉末或颗粒, 其水溶性胶体具有增稠, 稳定, 乳化, 悬浮, 成膜等作用。广泛应用于食品, 牙膏, 造纸, 陶瓷, 印染, 石油钻井等行业中。

SidleyCel® Sodium Carboxy Methyl Cellulose (CMC) is anionic cellulose ether made from cotton fiber by alkalization, etherification, purification, drying, grinding or granulation. It has the appearance of white powder or granules and the colloid solution has functions like thickening, stabilizing, emulsifying, suspending, film-forming etc. CMC is widely used in food, toothpaste, paper making, ceramics, printing and dyeing, oil drilling and other industries.



食品级 Food Grade CMC

SdielyCel	粘度 Viscosity	取代度 Degree of Substitution	纯度% Purity %	应用推荐 Applications
FHL30	20-40CPS(Brookfield,2%.25°C)	≥1.0	99.5	Lactic beverage
FH1000	500-1500CPS(Brookfield,1%.25°C)	0.7-0.95	99.5	Juice, Yogurt
FH3000	2500-3500CPS(Brookfield,1%.25°C)	0.7-0.95	99.5	Juice, Yogurt
FH5000	4500-5500CPS(Brookfield,1%.25°C)	0.7-0.95	99.5	Ice cream
FH7000	6500-7500CPS(Brookfield,1%.25°C)	0.7-0.95	99.5	Ice cream

SidleyCel®CMC 具有耐酸，耐盐性能好，溶液高透明度，游离纤维素和凝胶颗粒少，溶解速度快且溶液流动性好。

1、CMC 可防止酸奶中蛋白质凝聚而发生沉淀，分层。

2、在冰淇淋中，CMC 使水，脂肪，蛋白质等有效的混合，分散，乳化，并能避免冰晶的出现，使得口感细腻，润滑，成形好。

3、良好的取代均匀性，保证了酸性饮品的稳定性，使保质期时间更长。

4、CMC 本身没有热值，是制造低热食品的选择之一。

SidleyCel® CMC has benefits like good acid resistance, salt tolerance, high transparency, less free cellulose and gel particles, fast dissolution and good fluidity.

1. CMC can prevent the protein in yoghurt from coagulating and delamination.

2. CMC can make water, fat and protein well mixed, dispersed and emulsified in ice cream, avoid ice crystals, improve taste and keep uniformity of final products.

3. CMC can ensure the stability of acid drinks and extend its shelf life due to its good degree of substitution.

4. CMC itself has no calorific value and is a good choice for manufacturing low-calorie foods.

牙膏级 Toothpaste Grade CMC

SdielyCel	粘度 Viscosity	取代度 Degree of Substitution	纯度 Purity %	应用推荐 Application
TH9	200-500CPS(Brookfield,1%.25°C)	≥0.9	99.5	Toothpaste
TH10	200-500CPS(Brookfield,1%.25°C)	≥1.0	99.5	Toothpaste

CMC 是牙膏制造的重要原料之一，CMC 在牙膏中的作用是将配制牙膏的液体原料和固体原料均匀混合一起，赋予牙膏膏体成型和适当的粘稠度以及一定的光泽度和细腻感。

- 1、与牙膏中各种原料配伍性好，防止摩擦剂的分离。
- 2、膏体细腻，不分水，不脱壳，不发粗，延长货架期。
- 3、CMC 溶解后透光率高，具有更好的流变性和触变性能。

SidleyCel®CMC is applicable to the toothpaste industry. As the most important raw material for toothpaste manufacturing, it mainly plays a role in shape forming, pasting and molding, and gives toothpaste appropriate viscosity as well as certain glossiness and delicacy.

1. Good compatibility with various raw materials in toothpaste to prevent the separation of friction agent.

2. Make paste delicate, water-free, shell free and thick, extend the shelf life.

3. CMC has high transmittance, better rheological and thixotropic properties after dissolution.



造纸级 Papermaking Grade CMC

SidleyCel	粘度 Viscosity	取代度 Degree of Substitution	纯度 Purity %	应用推荐 Application
SX-5	20-50cps (Brookfield,4% 25°C)	≥0.75	95.0	Paper Making
SX-10	50-100cps (Brookfield,4% 25°C)	≥0.75	95.0	Paper Making

CMC 在造纸工业中应用于涂布纸涂料的制备，可作为湿部添加剂、表面施胶剂等：

- 1、控制和调节涂料的流变性和颜料的分散性
- 2、具有良好的成膜性，改善涂层的光泽度
- 3、提高涂料中增白剂的保留率，提高纸张白度

SidleyCel®CMC is applied to the preparation of coating paper in papermaking industry, used as wet end additives and surface sizing agent etc.

- 1.Control and adjust the rheology of paint and the dispersion of pigment.
- 2.Good film-forming property and improve the glossiness of the coating.
- 3.Improve the retention rate of whitening agent in the coating and improve the whiteness of the paper.



陶瓷级 Ceramic Grade CMC

SdielyCel	粘度 Viscosity	取代度 Degree of Substitution	纯度 Purity %	应用推荐 Application
SC0492	400-800CPS(Brookfield,2%.25°C)	≥0.92	95.0	Seepage glaze
SC1002	350-600CPS(Brookfield,1%.25°C)	≥0.98	95.0	Printing glaze
SC1592	800-1500CPS(Brookfield,1%.25°C)	≥0.92	95.0	Printing glaze
SC2092S	2000-2500CPS(Brookfield,1%.25°C)	≥0.92	95.0	Printing glaze

备注：SC209S 为速溶型 CMC, 可快速分散溶液中，避免抱团现象，减少操作时间。

Note: SC209S is surface treated type and can disperse quickly, avoid agglomeration and reduce the operation time.

CMC 在陶瓷釉浆中的作用：

- 1、优良分散性和保护胶体的性能，使釉浆处于稳定的分散状态，不分层。
- 2、调节釉浆的粘度，使釉浆具有良好的流变性，便于施釉。
- 3、产品取代度均匀，凝胶颗粒少，无不溶物，透网性好。

Functions of CMC in ceramic glaze:

- 1.The excellent dispersion and protective colloid properties make the glaze slurry stable without stratification.
- 2.Adjust the viscosity of glaze slurry to make it have good rheological property and easy to glaze.
- 3.Uniform degree of substitution, less gel particles, no insoluble matter and less residue on sieve.



石油级 Oil-drilling Grade CMC

产品 Product	项目 Items		规格 Spec.
高粘 CMC-HVT	表观粘度转速 Viscometer dial reading at 600rpm	蒸馏水 In distilled water \geq	30
		4%盐水 In 40g/dm ³ salt water \geq	30
		饱和盐水 In saturated salt water \geq	30
	滤失量 API Filtrate.cm ³ \leq		10
低粘 CMC-LVT	表观粘度转速 Viscometer dial reading at 600 rpm \leq		90
	滤失量 API Filtrate.cm ³ \leq		10

符合 GB/T5005-2001 及 API-13A 标准

Comply with GB/T5005-2001 and API-13A standards

石油级 Oil-drilling Grade Polyanionic Cellulose (PAC)

	表观粘度 Appearance viscosity (mpa.s)	滤失量 API Filtrate Volume	干燥减量 Moisture %	取代度 Degree of substitution (D.S.)
PAC-LV	≤ 40	≤ 16	≤ 10	≥ 0.9
PAC-HV	≥ 50	≤ 23	≤ 10	≥ 0.9

符合 API-13A 标准

Comply with API-13A standards

可根据客户要求订制生产不同规格产品。

Customized products are available according to customer's special requirements.



洗涤剂 Detergent Grade CMC

SdielyCel	粘度 Viscosity	取代度 Degree of Substitution	纯度 Purity %	应用推荐 Application
MRD101	5-40CPS(Brookfield,2%.25°C)	≥0.65	55.0	Washing powder
MRD202	2000-2500CPS(Brookfield,1%.25°C)	≥0.85	96.0	Laundry detergent
MRD203	2500-3500CPS(Brookfield,1%.25°C)	≥0.85	96.0	Laundry detergent

MRD202/203 为速溶分散型 CMC，不结团，溶解速度快，透明度高。

Note:MRD202/203 are surface treated CMC and can disperse quickly in water, has no agglomeration, fast dissolution and high transparency.



羟乙基纤维素醚

Hydroxy Ethyl Cellulose (HEC)

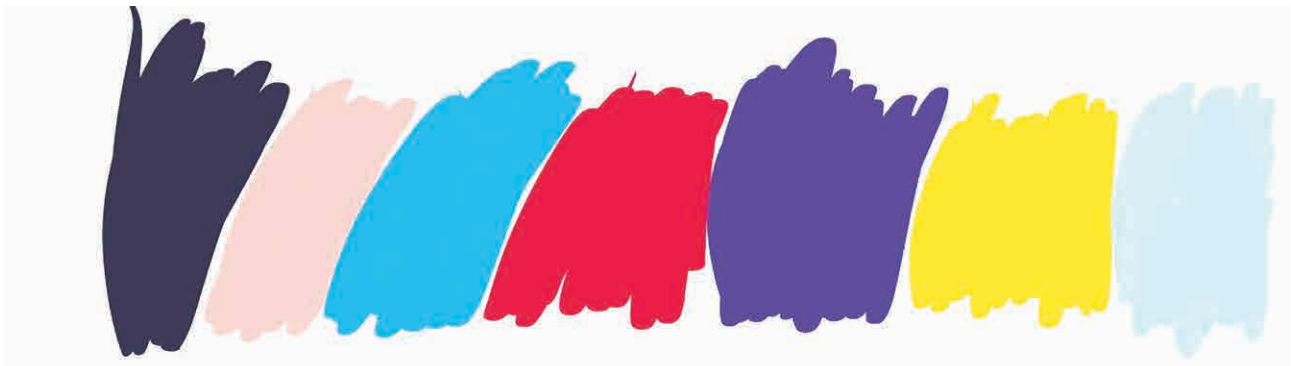
产品简介 Brief Introduction

羟乙基纤维素醚是一种非离子型纤维素醚，易溶于水中。它可提供增稠性，保护胶体，改善施工性，润湿性和稳定性，来确保最终产品的高品质。该产品具有更高、更均匀的取代度，优异的抗酶性。广泛用于真石漆，乳胶漆，石油钻井助剂，洗涤剂，牙膏生产等行业中。

SidleyCel® HEC (Hydroxy Ethyl Cellulose) is non-ionic cellulose ether, easily dispersed and dissolved in water. It provides thickening, colloid protection, construction property improvement, wetting and stability to final product to ensure high quality. It has high and even degree of substitution and excellent bio-stability, thus can be widely used in stone-like paints, latex paints, oil-drilling additives, detergent, toothpaste and etc.

产品特点 Typical Properties

外观 Appearance	白色或类白色粉末 white or similar to white powder
摩尔取代度 Molar substitution degree(MS)	1.8-2.5
干燥失重 Loss on drying	≤6.0%
PH	6.0-8.5
灰份 Ash content	Max.5%
粒径 Particle Size	min.92% pass through 80 mesh
密度 Bulk Density	0.30-0.50 g/ml



涂料级 Paints & Coating Grade HEC

羟乙基纤维素醚 Hydroxyethyl Cellulose	粘度 (2%溶液,20°C) Brookfield Viscosity 2% Solution , at 20°C
HEC – 300SE	250-650 mPa.s
HEC – 2000SE	1500-2500 mPa.s
HEC – 6000SE	4500-6500 mPa.s
	粘度 (1%溶液,20°C) Brookfield Viscosity 1% Solution , at 20°C
HEC – 15000SE	700-1500 mPa.s
HEC – 30000SE	1500-2400 mPa.s
HEC – 40000SE	2400-3500 mPa.s
HEC – 100000SE	4500-6000 mPa.s

S:Delayed solubility E:Biostable

HEC 具有优异的增稠效率、显色性、开放时间和优异的抗生物降解性。它还起到乳化、分散、稳定和保水的作用。该涂料在不同剪切速率下具有良好的流变性能，具有良好的工作性和流平性，不易脱落，良好的抗溅性和抗滑移性。

HEC provides excellent thickening efficiency, color development, open time, and superior resistance to biodegradation. It also plays a role in the emulsion, dispersion, stability and water retention. The coating has good rheological properties at different shear rates, and has good workability and leveling performance, good splash and sag resistance.



石油级 Oil-drilling Grade HEC

种类 Type	粘度 Viscosity mpa.s	水份 Moisture, % ≤	灰份 Ash content, % ≤	pH
O300	150-400 (2%)	5.0	5.0	6.0~8.5
O2000	1500-2500 (2%)			
O6000	4500-6500 (2%)			
O15000	700~1500 (1%)			
O100000	3300~4200 (1%)			
	4200~4800 (1%)			
	4800~6000 (1%)			

O 系列 HEC 主要用作石油钻井行业的增粘剂和降失水剂。高粘度 HEC 主要用作油井完井液的增粘剂，而低粘度 HEC 主要用作降失水剂。

O series of HEC is mainly used as viscosifier and fluid loss agent in oil drilling industry. High-viscosity HEC is mainly used as viscosifier in well-completing or finishing fluid; while low-viscosity HEC is mainly used as fluid loss agent.

包装与储存 Packaging and Storage
 25 千克 / 包；或根据客户要求
 25KG/bag; or customized packaging.



乙基纤维素醚

Ethyl Cellulose (EC)

产品简介 Brief Introduction

乙基纤维素 (EC) 是白色或浅灰色的流动性粉末或颗粒, 无嗅无味, 可溶于多种有机溶剂而不溶于水的非离子型纤维素醚。

SidleyCel® Ethyl Cellulose (EC) is white or light gray powder or granule. It is odorless, tasteless, insoluble in water but easily soluble in various organic solvents.

性能及应用 Properties and Applications

EC 主要用作片剂粘合剂, 可增加药片的硬度, 降低药片的脆碎度。作为成膜剂可改善药片的外观, 隔离味道, 防止药剂受潮变质, 增加药物的安全储存期。当 EC 用作油墨粘合剂时, 有助于形成耐磨的油墨膜。EC 与许多溶剂, 颜料和其它树脂有很好的相容性。

SidleyCel® Ethyl Cellulose (EC) is mainly used as tablet binder to increase the hardness and reduce the fragility of tablets. As film-forming agent, it can improve the appearance of the tablet, isolate odor, keep away moisture and deterioration of drug, and prolong the shelf life. It also can be used as ink binder, helps to form a wear-resistant ink film. SidleyCel® EC has good compatibility with various solvents, pigments and other resins.

规格参数 Technical specification

项目 Item	规格 Specifications		
	K grade	N grade	T grade
乙氧基 (WT%) Ethoxy content	45.5-46.8	47.5-49.5	≥49.5
炽灼残渣 Residue on ignition	≤0.40		
粘度 Viscosity (m.Pas 5% solutions, 20°C)	3, 5, 7, 10, 20, 50, 70, 100, 150, 200, 300		
干燥失重 Loss on drying (%)	≤3.0		
重金属 (ppm) Heavy Metal	≤20		

注明 Remark:

K: 具有较高的硬度, 强度及耐热性

K: High hardness, high strength and heat resistance

N: 具有广范的相溶性和柔软性

N: Wide range of solubility and flexibility

T: 仅溶于碳氢化合物而不溶于含氧原子的有机溶剂

T: Only soluble in hydrocarbons and insoluble in organic solvents containing oxygen atom

包装: 20 千克 / 桶

Packing: 20KG/Barrel

甲基纤维素醚

Methyl Cellulose (MC)

产品简介 Brief Introduction

甲基纤维素通常被认为安全，无毒，无致敏性，无刺激性。在制药工业中，低粘度或者中粘度的甲基纤维素可作为片剂的粘合剂，也可用于片剂包衣。高粘度产品多用于食品工业，具有保湿，增稠，乳化，成膜性能，以及对油脂的不透性，减少油炸食品的吸油率，使食品更加健康。

Methyl Cellulose is considered as safe, non-toxic, no irritation or sensitization cellulose ether. Low and medium viscosity MC can be used as binder and coating for tablets in pharmaceutical industries. High viscosity MC products are mainly used in food industry. It has good moisturizing, thickening, emulsifying, film forming properties and impenetrability to oil, thus can decrease the absorption of oil in food and makes food healthier.



规格参数 Technical Specifications

项目 Item	规格 Specifications
甲基含量 Methoxy WT %	27.5-31.5
表面粘度 Viscosity(mpa.s,2% solu.,20°C)	4000,30000,50000,70000
干燥失重 Loss on Drying WT %	≤5.00
pH	5.0-8.0
炽灼残渣 Residue on ignition WT %	≤1.0
重金属 Heavy Metals ppm	≤20

包装：圆纸板桶（内衬药用聚乙烯薄膜内袋）封装。20kg/ 桶

Packaging: 20kg/ fiber drum with inner PE bag suitable for pharmaceutical use.

羟丙基纤维素醚

Hydroxypropyl Cellulose (HPC)

高取代度羟丙基纤维素醚 HIGH- Substitute Hydroxypropyl Cellulose(H-HPC)

产品简介 Brief Introduction

H-HPC 在制药领域可以作为粘结剂使用，如作为片剂、颗粒的粘结剂，可增加药片的稳定性，提高药片的硬度。H-HPC 具有优良的成膜性，膜坚韧且具有弹性，也是一种优良的薄膜包衣材料。

SidleyCel® H-HPC can be used as a binder in pharmaceutical field such as tablet and particle binder, which can increase the stability and hardness of tablets. H-HPC has excellent film-forming property and film can be tenacious and elastic. It's also an excellent film coating material.



项目 Item	单位 Unit	标准 Standard
羟丙氧基含量 Hydroxypropoxy	%	55.0~77.0
干燥失重 Loss on drying	%	≤7.0
炽灼残渣 Residue on ignition	%	≤1.0
PH		5.0~8.0

种类 Types	粘度 Viscosity	溶液浓度 Concentration in water,Weight,%
M	4000-6500	2%
G	150-400	2%
J	150-400	5%
L	75-150	5%

包装及储运条件 Package and storage

25 千克 / 桶；或跟据客户要求

25KG/barrel; or customized packing.

低取代度羟丙基纤维素醚

Low Substitute Hydroxypropyl Cellulose(L-HPC)

低取代羟丙基纤维素是为片剂生产而专门制造的药用辅材，该产品是以碱纤维素为原料经环氧丙烷醚化而成。结构中含有大量的亲水基团，巨大的内表面和孔隙率，吸湿速度快，溶胀率高（远优于淀粉），对崩解性差的片剂可加速其崩解和崩解后分散的细度，从而加快药物的溶出速率，同时它的粗糙的结构能与药物有较大的镶嵌作用，使粘结强度增强，从而能提高片剂的硬度和光洁度，是片剂优选的崩解剂。

SidleyCel® L-HPC is a pharmaceutical excipient specially manufactured for tablet production, which is made of alkali cellulose by etherification of ethylene oxide. The molecular structure contains a large number of hydrophilic groups, large surface area and porosity, which accelerates the moisture-absorption, improves the swelling rates (better than starch), facilitates tablets disintegration and the fineness after disintegration, and accelerates dissolution rate. Its coarse structure has tessellation effect with medicine, which increases the bonding strength and improves the tablet hardness and surface finish. It is a superior choice of tablet disintegrating agent.

技术指标 Technical Index

种类 TYPE	应用 APPLICATION	含量 ASSAY	粒径 PARTICLE SIZE
LH11	崩解剂与粘接剂在湿粒片剂上的应用 Disintegrant to prevent the tablet crack for direct compression	10.0-12.9%	55µm
LH21	崩解剂防止药片破裂 Disintegrant and adhesive to tablet for wet granulation	10.0-12.9	45µm
LH22	普通崩解剂，用于普通粘合要求 Normal disintegrant, for normal adhesive force requirements	7.0-9.9%	45µm

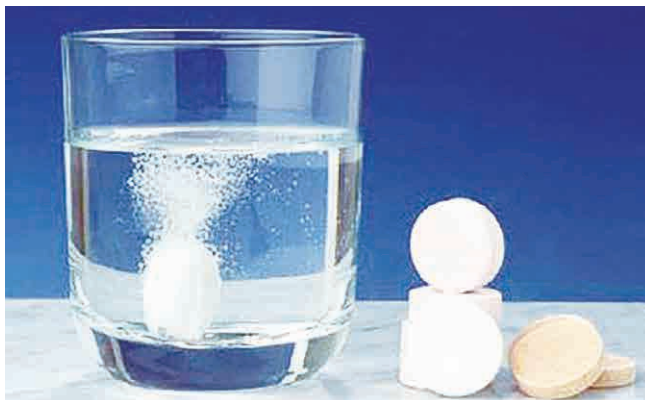
CAS: 9004-64-2

符合 CP2015, USP 标准

Comply to CP2015, USP standard

包装：25 千克 / 桶；25 千克 / 袋

Package: 25KG/BARREL; 25KG/BAG



微晶纤维素

Microcrystalline Cellulose (MCC)

本品为白色粉末，不溶于有机溶剂和油等，在稀碱液中少部分溶解，大部分膨化，可吸收 2-3 倍量的水，1.1-1.4 倍的油。MCC 是为片剂的一种辅料，MCC 为高度多孔性颗粒，极易变形，药品容纳量大，具有良好的干态粘合性和崩解性质，可被用作非常坚硬的片剂。本品还可用于食品添加剂等行业中。

Sidleycel Microcrystalline Cellulose (MCC) is white powder, insoluble in organic solvents or oil, can be partially soluble in alkaline solution, swell and absorbs water 2-3 times, oil 1.1-1.4 times of its own volume. As an excipient for tablet, MCC is highly porous particle, easy to transform and accommodate pharmaceutical ingredients. It has good bonding property in dry form and disintegration property, can be used in hard tablets. MCC also can be used in food additives.

医药级 Pharmaceutical Grade MCC

符合药典 USP,EP,CP
Comply with USP,EP and CP

外观 Appearance	-	白色或类白色粉末 White or quasi-white powder
气味 Odour	-	无嗅、无味 Odourless and tasteless
pH	-	5.0-7.5
水溶性物质 Water Soluble Substances	%	≤0.25
干燥失重 Loss on drying	%	≤5.0
炽灼残渣 Residue on ignition	%	≤0.1
传导性 Conductivity	ppm	≤75us/cm
醚溶性物质 Ether-Soluble Substances	%	≤0.05
重金属 Heavy metals	ppm	≤10

规格 Specification	球粒直径 Pellet Diameter (μm)	干燥失重 Loss on drying (<%)	密度 Bulk density (g/ml)
PH-101	50	5%	0.29
PH-102	90	5%	0.29

25kg/ 纸板桶

Packaging: 25kg/ barrel

羟丙甲纤维素邻苯二甲酸酯

Hydroxypropyl Methyl Cellulose Phthalate (HPMC-P)

本品为白色或近白色颗粒状固体，无味。是一种优异的肠溶性糖衣材料，具有优异的抗胃酸性能，PH=5.0-5.5 条件下不溶解。主要用于片剂，颗粒剂等。另外广泛用于养殖业，工业，生物科技等方面。

SidleyCel® Hydroxypropyl Methyl Cellulose Phthalate (HPMC-P) is white or off-white granular solid which is tasteless and used as enteric sugar coating material with excellent gastric acid resistance, insoluble at pH PH=5.0-5.5. It's mainly used in tablets, granules etc and also widely used in aquaculture, biotechnology and other industries.

执行美国药典USP33版
Comply with USP 33

项目 ITEM	规格 Specification	
	HP55	HP55S
甲氧基 Methoxy (wt, %)	18.0-22.0	18.0-22.0
邻苯二甲酰基 Phthaloyl group (wt, %)	27.0-35.0	27.0-35.0
羟丙氧基 Hydroxypropoxy (wt, %)	5.0-9.0	5.0-9.0
粘度 Viscosity (mPa.s)	32-48	136-204
干燥失重 Loss on drying (%)	≤5.0	≤5.0
炽灼残渣 Residue on ignition (%)	≤0.20	≤0.20
氯化物 Chloride (%)	≤0.07	≤0.07
重金属 Heavy metals (ppm)	≤10	≤10

包装：25kg/ 桶
Packaging: 25KG/Barrel.



醋酸羟丙基甲基纤维素琥珀酸酯 HPMCAS

SidleyCel® Hydroxypropyl Methyl Cellulose Acetate Succinate (HPMCAS)

醋酸羟丙基甲基纤维素琥珀酸酯 (HPMCAS) 是羟丙甲纤维的醋酸和琥珀酸混合酯。本品为白色至淡黄色粉末或颗粒，无味。主要用于肠溶包衣。

SidleyCel® Hydroxypropyl Methyl Cellulose Acetate Succinate (HPMCAS) is mixed ester of HPMC acetate and succinic acid. It is tasteless, white to light yellow powder or granule, and mainly used for enteric coating.

性能特点 Characteristics

作为肠溶包衣材料其特点是成膜性好，不需要增塑剂，在小肠上部（十二指肠）溶解性好。对于增加药物的小肠吸收有其特点。

溶解性

在丙酮，乙醇 - 二氯甲烷，丙酮 - 乙醇 - 水等溶剂中能够很好的溶解。

As enteric coating material, it has good film-forming property without plasticizer, good solubility in the upper part of small intestine (duodenum), thus can increase medicine absorption in small intestine.

It can be well dissolved in acetone, ethanol- dichloromethane, acetone- ethanol- water and other solvents.

执行美国药典 USP33 版

Comply with USP 33 Edition

项目 ITEM	规格 Specification		
粘度 Viscosity (mPa.s)	2.4-3.6		
甲氧基 Methoxy (wt, %)	12-28		
游离酸 (wt, %) Free acetic	27.0-35.0		
羟丙氧基 Hydroxypropoxy (wt, %)	4-23		
干燥失重 Loss on drying (%)	≤5.0		
炽灼残渣 Residue on ignition (%)	≤0.20		
重金属 Heavy metals (ppm)	≤10		

含量 Content	LG	MG	HG
乙酰基 Acetyl group	5.0-9.0	7-11	10-14
丁二酰基 Butyl two acyl group	14-18	10-14	4-8

包装：圆纸筒，内衬高压聚乙烯薄膜袋，10kg/ 桶 or 25kg/ 桶
PACKAGING: 10KG/barrel or 25KG/barrel lined with inner PE bag.
Cas No. 71138-97-1



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