

羧甲基纤维素钠盐

Carboxymethyl cellulose sodium salt



产品信息

【物理化学性质】白色或微黄色的颗粒絮状粉末无臭无味，易溶于冷水或热水，形成透明粘稠溶液。其溶液在中性和微碱性条件下稳定，不溶于乙醇、乙醚等有机溶剂。羧甲基纤维素钠盐具有吸湿性，对光热稳定，粘度随温度升高而降低，pH值在2~10范围内稳定。



Product Information

【Physical and Chemical Properties】White or slightly yellow granular flocculent powder Odorless and tasteless, easily soluble in cold or hot water, forming a transparent viscous solution. Its solution Stable under neutral and slightly alkaline conditions, insoluble in organic solvents such as ethanol and ether. Carboxymethyl cellulose sodium salt has hygroscopicity, is thermally stable, and viscosity increases with temperature And it decreases, and the pH value remains stable within the range of 2-10.

产品特点

● 产品优势

- 1、绿色环保，无毒无害无气味；
- 2、产品流动性好、耐盐性能好、抗菌性强、使用方便；
- 3、用量小、造浆率高、增粘降滤失效果好；

● 包装

25kg三合一复合牛皮纸防潮袋包装。（可根据客户需求定制）

● 存储

储存环境应清洁通风，理想储存温度为15°C至30°C，产品应避免阳光直射和紫外线照射，贮运过程中防潮、防热、远离火源和其他易燃物品。

● 用法及用量

0.2% ~ 0.5%加量



技术指标

CMC-HV技术要求

项目	指标
淀粉或淀粉衍生物	无
粘度计600 r/min读值	去离子水溶液 ≥ 30
	40g/L盐水溶液 ≥ 30
	饱和盐水溶液 ≥ 30
饱和盐水悬浮液滤失量	≤ 10.0

CMC-LV技术要求

项目	指标
淀粉或淀粉衍生物	无
粘度计600 r/min读值	≤ 90
饱和盐水悬浮液滤失量	≤ 10.0

具体作用

1、用作石油钻井泥浆的悬浮稳定剂

含羧甲基纤维素钠盐的钻井液稳定性好，温度在150°C以上仍能降低失水，能使井壁形成薄而韧、渗透性能低的滤饼，保持低的滤失量；含羧甲基纤维素钠盐的钻井液流变性和悬浮稳定性好，抗各种可溶性盐类污染能力强，很少受霉菌影响；含羧甲基纤维素钠盐的钻井液具有良好的增粘能力，低粘度高取代度的羧甲基纤维素适用于高密度钻井液，具有良好的降滤失作用。

2、用作油田压裂用化学品

快速提高压裂液粘度，可高效携带支撑剂进入油井裂缝中，建立渗透通道，快速降低滤失量，使底层压力快速上升，达到高效传递压力的作用，产品无残渣，对地层无伤害，可代替瓜尔胶和聚丙烯酰胺使用。



Technical Index

CMC-HV Technical Requirements

Project	Indicators
Starch or starch derivatives	not have
Viscometer reading at 600 r/min	VDeionized water solution ≥ 30
	40g/L saline solution ≥ 30
	Saturated saline solution ≥ 30
Filtration loss of saturated saline suspension	≤ 10.0

CMC-LV Technical Requirements

Project	Indicators
Starch or starch derivatives	not have
Viscometer reading at 600 r/min	≤ 90
Filtration loss of saturated saline suspension	≤ 10.0

Specific function

1. Used as a suspension stabilizer for petroleum drilling mud

The drilling fluid containing sodium carboxymethyl cellulose has good stability and can reduce water loss even at temperatures above 150 °C. It can form a thin and tough wellbore with low permeability Filter cake, maintain low filtration loss; The drilling fluid containing carboxymethyl cellulose sodium salt has good rheological properties and suspension stability, strong resistance to various soluble salt pollution, and is very effective Less affected by mold; The drilling fluid containing sodium carboxymethyl cellulose has good viscosity increasing ability, and carboxymethyl cellulose with low viscosity and high degree of substitution is suitable for high-density drillingDrilling fluid has a good filtration reducing effect.

2. Used as a chemical for oil field fracturing

Quickly increasing the viscosity of fracturing fluid can efficiently carry proppants into oil well fractures, establish permeability channels, rapidly reduce filtration loss, and increase bottom pressure Ascending to achieve efficient pressure transmission, the product has no residue and no damage to the formation, and can be used as a substitute for guar gum and polyacrylamide.



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