

No. 666 Haibin 12th Road, Huangdao, Qingdao, China

CMC for Food Industry

Specification:GB1904-2005

Specification:High Purity

[illegible]

EAST CHEMSOURCES LIMITED

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PH Value	6.0-8.5
Heavy Metal	<10ppm
Fe	<3ppm
As	<2ppm
Pb	<3ppm
Remarks	* means 2% aqueous solution viscosity

CMC for Toothpaste Industry

As the most important matrix,CMC has the properties of paste fine,smooth and uniform,foam plentiful,and high stability.It can impart toothpaste good shape-maintaining and unusual comfortable mouthfeel.

Item	TH10	TH9	TVH9	TM9
Viscosity 2% Solution mpa.s NDJ-79	900-1200		>1500	400-900
Degree of substitution	1.0	0.90		
Chloride,%	1.8			
PH Value	6.5-8.5			
Loss on drying,%	<7.0			
Total plate count,cfu/g	100			
Remarks	The rest specification should comply with QB/T 2318-2007			

CMC for Pharmaceutical Industry

If added CMC into medicine tablet or gain as adhesive and disintegrant,the medicine will be easily processed into some shape and it is helpful for the medicines to digestion and absorption,CMC can also be used in ointment as dispersant and humectant,and in some liquine,syrup etc.,used as suspending agent,emulsifier,stabilizer and so on.

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Item	PM6	PH6
Sodium Content,%	6.5-8.5	
Viscosity,mpa.s	300-800	800-1400
Chloride,%	<2%	
PH	6.5-8.0	
Moisture,%	<10	
Lead Salt,%	<0.001	
Iron Salt,%	<0.016	
Arsenic Salt,%	<0.0003	

CMC for Ceramic Industry

In ceramic industry,CMC can be used as excipient and intensifier of the blank,adding appropriate amount of CMC into the blank will enhance the blank,a blinding force and reduce blank,a breakage rate.In ceramic material,CMC can improve the glaze slurry,a flow and increase the smoothness and improve the quality of glazed surface.

Viscosity 2% solution,NDJ-79	Degree of substiution	PH	Loss on drying
800-1200	>0.9	6.5-8.0	<10%
300-500			
1300-1600			
500-800	0.65-0.85		
800-1200	>1.0		

CMC & PAC for Oil-Drilling Industry

CMC and PAC can be widely used in oil drilling,having good water loss control capability,PAC product is a kind of effective water loss controller and viscosifier with high mud yield,strong salt resistance and temperature tolerance

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1.Specification of PAC

Item		H	HV	L	LV
D.S.		>0.9			
PH		6.0-8.0			
Moisture, %		<10			
Yield in distilled water, m3/t		>400	---		
Yield in 40g/l salt water, m3/t		>230	---		
Yield in saturated salt water, m3/t		>280	---		
Addition (At 10mpa.s of water loss)	40g/l salt water, mpas	--		<5	-
	Saturated salt water, mpa.s	--		<8	-
Apparent viscosity (At 10mpa.s of water loss)	40g/l salt water, mpas	--		<4	-
	Saturated salt water, mpa.s	--		<6	-
Water loss	At 5.7g/l of PAC concentration, ml	-	<20	-	<25
	At 8.6g/l of PAC concentration, ml	-	<15	-	<15
	At 11.4g/l os PAC concentration, ml	-	<10	-	<10
YP values	At 5.7g/l of PAC concentration, Pa	-	>2.4	-	<0.5
	At 8.6g/l of PAC concentration, Pa	-	>9.6	-	<1.0
	At 11.4g/l os PAC concentration, Pa	-	>19.2	-	<1.5

2.Technical Grade CMC (GB/T5005-20012)

Type	Items		Specification
HVT	Viscometer dial reading At 600 rpm	In deionized water	>30
		Salt water in 40g/dm3	>30
		In saturated salt water	>30
	Water Loss, cm3		<10
LVT	Viscometer dial reading at 600 rpm		<90
	Water loss, cm3		<10

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3.CMC used for oil drilling fluid

Type	Item		Specification		
			Distillated Water	40g/l salt water	Saturated salt water
	LV.MV-CMC Base mud	Water loss,ml	60±10	90±10	100±10
		Apparent viscosity,mpa.s	<6	<6	<10
		PH	8.0±1.0	8.0±1.0	7.5±1.0
HV-CMC	Yield,m3/t		>200	>150	>160
LV-CMC	At 10ml of water loss	Addition,g/l	-	<7.0	<10
		Apparent viscosity,mpa.s	-	<4.0	<6.0
MV-CMC	Apparent viscosity 15mpa.s	Addition,g/L	<6.0	<14.0	<23.5
		Water Loss,ml	<9	<9	<8

CMC for Mosquito Coils Industry

CMC can uniform bonding between the components together to replace the elm powder,has good shape and smooth surface to facilitate forming properties.

CMC can enhance the resilience of mosquito coils,mosquito coils is not easy to break.

CMC will make to mosquito coils' components good efficacy even released.

Viscosity 2% NDJ-79,mpa.s	PH	D.S.	Chloride	Loss on drying
>1200	6.0-9.0	>0.65	<15%	<10%
900-1200			<20%	
600-900				
400-600				

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CMC for Paper Industry

CMC is used as paper sizing agent, can evidently increase paper's dry intensity, wet strength, oil resistance, ink absorbance and water resistance.

Viscosity 4% solution, Brookfield ,mpa.s	PH	D.S.	Purity	Loss on drying
20-100	6.5-8.5	>0.80	>95%	<10%
100-200				
200-500				
1000-2000				

CMC for Painting

As protective colloid, CMC will heighten stability of emulsion polymerization system to evenly scatter the additive of pigment and filler etc., into painting so as to impart it will good pigment adhesion effect. CMC can evidently improve the viscosity of painting latex, anti-splash and sag resistance of painting in order for enhancing the workability of painting.

Viscosity 2% NDJ-79, mpa.s	D.S.	Loss on drying	PH
800-1200	>0.7	<10%	6.5-8.0
1200-1800			
>1800			