

<Carboxy Metyl Cellulose>

CMC가

■ CMC
CMC(Carboxy Metyl Cellulose)

, Grease, Oil

CMC Na CMC Ca CMC

■ CMC

, 가 , ,

, ,

가

CMC		
	(,)	Ice crystal growth control texture
	,	Viscosifier, water-binding ability.
	, ,	Suspending aid.
	,	Vicosifier.
		Odorless and tasteless.
		Emulsion stabilizer.
	,	Retention of Water
		High emulsification & dispersive power, good film, strength, naturality in aqueous solutions,
		Vicosifier for improved mouthfeel.
		Binding of odor & water, adhesive.
		Viscosifier and suspending aid
	()	Rheology control, water retention.
		Oil and Grease-resistance, formation of improvious film.
	,	Emulsion stabilizer, thickener, emollient.
		Viscosity regulator, dispersing and suspending agent.
		Suspending agent, Viscosity foam stabilizer.
	BEAUTY AID	Stabilizer & suspending agent.
()		Suspending & binding properties, Low ash, good burnout properties.
		Binding of water, suspending agent.
		Binding of water, adhesion.
		Suspending of heavy material.
		Suspending, Surface active agent.
	,	, Lubricating.
		Water binding ability, Lack of quick tack, readily washable, nonstaining paste.
		Viscosifier, suspending aid, water binding ability.

Na

CMC가

,

(Degree of Substitution')

(DS) (DP)

DS가 0.4

CMC

■ CMC

CMC 2~3 50% 15%,
35% 가 가
CMC 가 가
CMC 3000 1200
80%

CMC (:)				
			92	
	3,000	Na CMC		2,500
				2,000
				500
	1,200	Ca CMC		1,100
				1,000
				50
	2,000	Na CMC	-	-
CMC				3,000
				800
				3,800

CMC (: /)			
		11,520	A
	"	15,000	A
	"	8,760	A.B.S
	"	4,400	B.S
		1,560	A
	"	2,400	A.B

() Na CMC Ca CMC Na CMC
, 92 2500 2000 500
() Ca CMC 92 1100 , 50

CMC 20%
BILLERUD(),
CMC 가 가
() 92 2000
CMC 93 2 Na CMC , 40
50% 가

CMC (: ,%)						
	1988	1989	1990	1991	1992	
	18,976	20,759	21,615	22,691	22,325	1.6
	7,349	6,621	7,689	8,573	6,458	24.7
	26,325	27,380	29,304	31,264	28,783	7.9

CMC		
	(%)	10%
	CMC , (%)	98%
	(%)	1%
		180 ~ 225
		210 ~ 250
		0.65 ~ 0.75
	BOD (1%)	100 ~ 180ppm
	COD()	6,000ppm
	(2%,25)	1,007
		71 dyne/cm
	2% PH	6.0 ~ 8.0
	(g/ml)	1.52 ~ 1.50

CMC

■

CMC

87

4

CMC

92

92

91

, 91

가 2 2691 ,

3

92

가 2 2325

91

1.6%

, 6458

24.7%

, 2 8783

7.9%

CMC (: ,%)										
	A			S			B			
1988	14,078 (13.3)	6,119 (17.4)	20,197 (14.5)	3,702 (3.9)	252 (24.6)	3,954 (1.5)	1,196 (14.8)	978 (25.8)	2,174 (7.9)	26,325 (10.2)
1989	15,129 (7.5)	5,345 (12.6)	20,474 (1.4)	4,070 (9.9)	303 (20.2)	4,373 (10.6)	1,560 (30.4)	973 (0.5)	2,533 (16.5)	27,380 (4.0)
1990	15,712 (3.9)	6,068 (13.5)	21,780 (6.4)	4,077 (0.2)	334 (10.2)	4,411 (0.9)	1,826 (17.1)	1,287 (32.3)	3,113 (22.9)	29,304 (7.0)
1991	16,529 (5.2)	7,286 (20.1)	23,815 (9.3)	4,245 (4.1)	278 (17.8)	4,523 (2.5)	1,917 (5.0)	1,009 (21.6)	2,926 (6.0)	31,264 (6.7)
1992	16,566 (0.2)	5,584 (23.4)	22,150 (7.0)	4,088 (3.7)	283 (1.8)	4,371 (3.4)	1,671 (12.8)	591 (41.4)	2,262 (22.7)	28,783 (7.9)

8.1% 가
4600

30.6%,
18% 가 ,
1000 ~ 1500

2.6%
가 2500

1.3%, 2.1% 2600 , 1000
3000

800 ,

600 ,

93

CMC

가 1 3

92

7

가

가

CMC

가

가

가

< 1993/7/1>