

Product Data

38.001-E3
(supersedes 38.001-E2)
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BONDWELL® CMC F-types **high purity sodium carboxymethylcellulose for food applications**

BONDWELL CMC F-types are a series of purified sodium salt of carboxymethylcellulose (CMC) with a minimum purity of 95.0%. BONDWELL CMC F-types with the suffix A, for example type FH9A, have a minimum purity of 99%. The products are odourless, tasteless, anionic water-soluble polymers derived from cellulose. The products act as a thickener, rheology control and water binding agent, stabilizer, suspending and water-retention aid as well as controller of ice-crystal formation food products. They also improve the mouthfeel of frozen desserts, fruit and dairy products.

TYPES AND TYPICAL PROPERTIES

Types	Degree of substitution	Concentration %	Viscosity range at 25 °C, mPa.s	Brookfield LVT settings Spindle no	RPM
FH6	0,75 – 0,90	1	200 - 500	2	30
FH9	0,90 – 1,00	1	200 - 500	2	30
FH10	1,0 min	1%	200 - 500	2	30
FL6-1	0,75 – 0,90	2	100 - 200	1	30
FL6-2	0,75 – 0,90	2	200 - 500	2	30
FL9-1	0,90 – 1,00	2	100 - 200	1	30
FL9-2	0,90 – 1,00	2	200 - 500	2	30
FM6-1	0,75 – 0,90	2	500 - 1000	2	30
FM6-2	0,75 – 0,90	2	1000 - 3000	3	30
FM9-1	0,90 – 1,00	2	500 - 1000	2	30
FM9-2	0,90 – 1,00	2	1000 - 3000	3	30
FVH6-1	0,75 – 0,90	1	500 - 1500	3	30
FVH6-2	0,75 – 0,90	1	1500 - 4000	3	30
FVH6-3	0,75 – 0,90	1	4000 min.	3	30
FVH9-1	0,90 – 1,00	1	500 - 1500	3	30
FVH9-2	0,90 – 1,00	1	1500 - 3000	3	30
FVH9-3	0,90 – 1,00	1	3000 min.	3	30
FVH10	1,0 min.	1	500 - 1500	3	30

Note: The purity is calculated as 100% - (%NaCl + %NaGlycolate)

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TYPICAL PROPERTIES

Appearance	White to off-white powder
Particle size	98,0% min. thru sieve 0.2mm (ASTM no.70)
NaCl + NaGlycolate	5,0 % max. for the regular F-types 1,0 % max. for types with the suffix A
Sodium Glycolate	2,5% max. for the regular F-types 0,5% max. for types with the suffix A
Moisture content as packed, %	10 max
Solution pH, at 1%	6,0 - 8,5
Bulk density, g/cm ³	0,55 – 1,00
Heavy metals	20 ppm max

Note: All methods of analysis are available upon request

REGULATORY STATUS

The BONDWELL[®] CMC F-types meet the food regulations in the Peoples Republic of China, Taiwan, Korea, Vietnam and other regions. Because regulations vary per region and country, please confirm the appropriate food regulations in your country before using BONDWELL CMC F-types in food applications.

PACKAGING AND STORAGE

BONDWELL CMC F-types are packed in 3-ply paper bag with removable polyethylene inner bag of 25 Kgs net weight and supplied on pallets of 40 bags each.

The product is a non-perishable powder. It is recommended to use the product in rotation on a first-in first-out basis. The product should be stored under dry and clean conditions in its original packing and away from heat. The product is hygroscopic. The packaging is selected in a way to avoid ingress of moisture, but the water content of the packed product may increase if not stored dry.

PRODUCT SAFETY

Read and understand the Safety Data Sheet (SDS) before using this product.