

Product Data



MPSI

Mineral and Pigment Solutions, Inc.

Cellulose Gum - Akucell (Cosmetic / Food / Ceramic Grade)



Authorized Distributor

TYPICAL CHEMICAL PROPERTIES:

Sodium Carboxmethylcellulose (% min.)	99.5
Sodium Chloride (% max.)	0.15
Heavy Metals (max.)	10 ppm
Pb - Lead (max.)	3 ppm
Moisture (% max.)	8.0
Degree of Substitution	0.80 - 0.95
pH (1.0% solution)	6.5 - 8.5
Appearance	White Hygroscopic Powder

Applications:

Carboxymethyl cellulose (CMC) is an anionic water soluble polymer. It is manufactured by reacting insoluble cellulose with sodium hydroxide and chloroacetic acid during which the hydroxyl groups are etherified and converted into carboxymethyl groups. These polymers are characterized by the degree of substitution (DS) and degree of polymerization (DP). They are used as viscoifiers and absorbents in food, food packaging, personal care products, cement, plaster, water-based paints, wallpaper, adhesives, detergents, etc.

Note: Specific product application recommendations are available on request.

MPSI Code	CMC-AF0305	CMC-AF0705	CMC-AF1505	CMC-AF1605	CMC-AF1705	CMC-AF1985
C.A.S. Number	9004-32-4	9004-32-4	9004-32-4	9004-32-4	9004-32-4	9004-32-4
C.A.S. Code	0075	0075	0075	0075	0075	0075
TYPICAL PHYSICAL PROPERTIES:						
Compacted Bulk Density (g/ml)	0.5 - 0.8	0.5 - 0.8	0.5 - 0.8	0.5 - 0.8	0.5 - 0.8	0.5 - 0.8
Viscosity (1.0 % solution) - mPas	10 - 15	20 - 30	40 - 70	50 - 100	70 - 110	110 - 200
% Thru 100 Mesh	50.0	50.0	50.0	50.0	50.0	50.0
% Thru 35 mesh	99.5	99.5	99.5	99.5	99.5	99.5

Information presented herein is believed to be accurate and reliable but is not intended to meet any specification and does not imply any guarantee or warranty by Mineral and Pigment Solutions, Inc. (MPSI). For more information and assistance, contact Technical Services at 1-800-732-0562.

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MPSI Code	CMC- AF2085	CMC- AF2205	CMC- AF2405	CMC- AF2782	CMC- AF2785	CMC- AF2805
C.A.S. Number	9004-32-4	9004-32-4	9004-32-4	9004-32-4	9004-32-4	9004-32-4
C.A.S. Code	0075	075	0075	0075	0075	0075
TYPICAL PHYSICAL PROPERTIES:						
Compacted Bulk Density (g/ml)	0.5 - 0.8	0.5 - 0.8	0.5 - 0.8	0.5 - 0.8	0.5 - 0.8	0.5 - 0.8
Viscosity (1.0 % solution) - mPas	200 - 400	300 - 500	800 - 1,200	1,500 - 2,500	1,500 - 2,500	2,500 - 4,500
% Thru 100 Mesh	50.0	50.0	50.0	-	50.0	50.0
% Thru 60 Mesh	-	-	-	98.0	-	-
% Thru 35 mesh	99.5	99.5	99.5	-	99.5	99.5

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MPSI Code	CMC- AF2982	CMC- AF2985	CMC- AF3085	CMC- AF3285	CMC- AF3295	
C.A.S. Number	9004-32-4	9004-32-4	9004-32-4	9004-32-4	9004-32-4	9004-32-4
C.A.S. Code	0075	0075	0075	0075	0075	
TYPICAL PHYSICAL PROPERTIES:						
Compacted Bulk Density (g/ml)	0.5 - 0.8	0.5 - 0.8	0.5 - 0.8	0.3 - 0.6	0.3 - 0.6	
Viscosity (1.0 % solution) - mPas	5,000 - 8,000	5,000 - 8,000	8,000 - 12,000	10,000 - 15,000	6,000 - 12,000	
% Thru 100 Mesh	-	50.0	50.0	-	-	
% Thru 60 Mesh	98.0	-	-	-	-	
% Thru 35 mesh	-	99.5	99.5	97.0	97.0	

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