MAGNESIUM CARBONATE

Naikai Salt Industries Co., Ltd. has manufactured and supplied various grades of Magnesium Hydroxide from 1962, and has just started the production of Basic Magnesium Carbonate (BMC) with the initial production capacity of 6,000 ton/year from October, 2010. The consistency production process of BMC via Magnesium Hydroxide by continuous innovation can provides high quality BMC suitable for stringent requirements from diverse fields of chemical, food, cosmetics, footwear and rubber industries

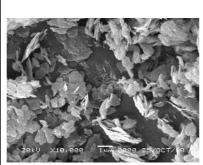
Physical Properties

Trade and Proper Shipping Name : Magnesium Carbonate TT
Magnesium Carbonate TT Food Grade
CAS No. : 546-93-0, 1309-42-8, 39409-82-0
Chemical Name : Magnesium Carbonate Hydroxide
Molecular Formula : 4MgCO ₃ • Mg(OH) ₂ • 4H ₂ O
Molecular Weight: 467.7
Crystalline : Plate crystal
Refractive Index : 1.52 - 1.53
Specific Gravity : 2.1 - 2.2 g/cm ³



General Properties

				_	
		TT	TT Food Grade [*]		
Appearance		White fine powder	White powder	15-10	
Bulk Density	g/cm ³	0.20~0.25		1 den	
75µm Residue	%	≦ 0.5		-161	
Moisture Content**	%	≦ 2.0		2118	
Ignition Loss	%	54.0 ~ 56.0		in I	
MgO	%	40.0~43.0	40.0~44.0		
Fe ₂ O ₃ +Al ₂ O ₃	%	≦ 0.10		NI.	
T-CI	%	≦ 0.15		20kU >	
Insoluble Matter in HCI	%	≦ 0.10		SE	
Soluble Matter in Water	%	≦ 1.0	≦ 1.0		
CaO	%	≦ 0.60	≦ 0.60	Standaro bag.	
Arsenic (as As ₂ O ₃)	μ g/g		≦ 4.0	The mat	
Heavy Metals	μg/g		≦ 30	layered	
Clarity of solution			Very slightly turbid		
* Japan's Specifications and Standards for Food Additives ** Measured just after production due to its absor					

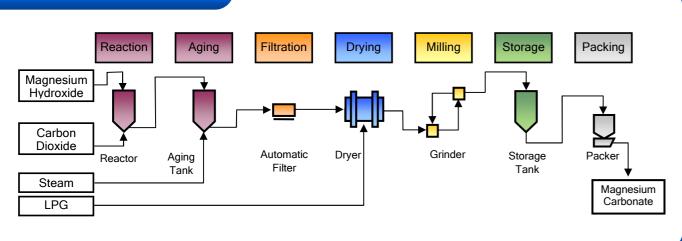


EM image of BMC

rd package style is 25 kg paper terial of these paper bags is three craft

Measured just after production due to its absorbency Japan's Specifications and Standards for Food Additives

Production Process



Magnesium Carbonate is used fo

Product Markets	
I foduct Markets	
Rubber	Reinforcing filler To give the highes
Elastomer	Antiblocking agent To preserve a colo Fireproofing and h
Plastics	Forming adjuster for
Paint	Fillers and anti-mi
Ink	Material for pigme Deadening in man
Paper	Oil absorbent in m
Food Additives	Anti-caking agent Enrichment of ma
Animal Feedstuffs	various foods Demolding agent i Carbonate source
Agriculture	Magnesium source Magnesium source
Hygiene	Gypsum impressio A base in talcum p
Cosmetics	Rheological agent Moisture stabilizer
Toiletries	Hold-back agent toothpaste.
Ceramics & Glass	Matting agent in th
Catalysts	Molten material fo Adjuster for permi
Construction	Magnesium sourc Suspending agen
Steel Industry	of special stair

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est transparency to natural rubber	
ent, Stabilizer in the automotive PVC plastisols plored parts in rubber products	5
heat insulating in manufacture of plastics r for foamed EVA	

sting in manufacture of paint and ink ents

nufacture of paintand ink

nanufacture of paper,

in the cooking salt/powdered drinks agnesium for various foods, forming agent for

in the manufacture of biscuits e in the soft drinks ce for animal's diet ce in the agricultural materials.

ions in dentistry powders/baby powders/face powders

r in manufacture of soap

for fragrant material in manufacture of

the manufacture of ceramics or glass,

ittivity in manufacture of ceramic capacitor

ce for the manufacture of catalyst compounds

t in mixing cement, denitrificator in manufacturing nless steel.

2011. 2.

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