

Product Data Sheet FOOD/PHARMA/COSMETIC

Magnesium Carbonate

Synonyms: Magnesium Hydroxide Carbonate; Magnesium Carbonate basic
 INCI name: Magnesium Carbonate Hydroxide

CAS no. 12125-28-9 / 39409-82-0 **EINECS no.** 235-192-7 **HS no.** 28369911

General Characteristics

Formula	approx. $4\text{MgCO}_3 \cdot \text{Mg}(\text{OH})_2 \cdot 5\text{H}_2\text{O}$
Molecular weight	approx. 485 g/mol
Metal content	approx. 25.0 % Mg
Solubility (20 °C)	--
pH (1 %)	approx. 10
Odor	neutral
Flavor	sandy, neutral

++ > 100 g/l | + 10 - 100 g/l | - 1 - 10 g/l | -- < 1 g/l

The solubility specified here was measured in water. The solubility is influenced by many factors in the application.

Product

Product no.	Bulk Density (g/l)	Quality	Appearance
503036001	approx. 500 heavy	Ph.Eur. USP BP FCC E 504 food supplement JECFA Ph.Franc.X	powder
503036002	approx. 500 heavy	Ph.Eur. FCC JSFA	
503036023	approx. 450 heavy	Ph.Eur. Ph.Franc.X E 504 food supplement	
503036022	approx. 300 medium heavy	Ph.Eur. USP FCC E 504 chem. pure	
503036012	< 150 light	Ph.Eur. USP BP FCC E 504 food supplement chem. pure	
503036007	approx. 120 light	JSFA	
503036009	approx. 120 light	Ph.Eur. USP	

Product Specialties

Product	Product no.	Bulk density (g/l)	Product information	Metal content
Magnesium Carbonate DC 97GA	503036035	approx. 450	granules, directly compressible with 3 % gum arabic	approx. 24 % Mg
Magnesium Carbonate DC 90S	503036016	approx. 600	granules, directly compressible with 10 % corn starch	approx. 22.5 % Mg
Magnesium Carbonate DC 90S/C	503036017	approx. 500	coarse granules, directly compressible with 10 % corn starch	
Magnesium Carbonate DC 90S/F	503036018	approx. 500	fine granules, directly compressible with 10 % corn starch	

Magnesium Carbonate

Key Features

- ◆ API for laxatives and antacids
- ◆ Anti-caking agent as Excipient
- ◆ Absorbents, opacifier and bulking agent for Cosmetics
- ◆ Permitted for the fortification of several foods
- ◆ Food additive as bulking agent or pH regulator. Light qualities can be used as anticaking agent to replace silicon dioxide.

Legal Permission acc. to EU Food Regulation

- ◆ Food¹
- ◆ Food supplements²
- ◆ Infant formulae and follow-on formulae³
- ◆ Processed cereal-based foods and baby foods for infants and young children³
- ◆ Food for special medical purposes³
- ◆ Total diet replacement for weight control³
- ◆ Food additive⁴

Allergen

The above-mentioned substances do not contain allergens according to:

- ◆ Regulation (EU) No 1169/2011 of the European Parliament and of the Council on the provision of food information to consumers
- ◆ Food Allergen Labeling and Consumer Protection Act of 2004 (FALCPA)
- ◆ RESOLUÇÃO DA DIRETORIA COLEGIADA - RDC N° 26/2015 (Brazil)
- ◆ National food safety standard General Rules for the labeling of prepackaged foods GB7718-2011 (China)
- ◆ Specifications and Standards for Foods, Food Additives, etc. Under the Food Sanitation Act 2010 (Japan)

Vegan/Vegetarian

The above-mentioned substances do not contain any animal derived products. They are compatible with vegetarian and vegan diet.

Magnesium Carbonate

Nutritional Data

Nutrition declaration according to Regulation (EC) No. 1169/2011

Basis: typical calculated values for 100 g product

Energy	0 / 0		kJ/kcal	Minerals		
Carbohydrate			g	Aluminium	-	g
- of which, sugars	-		g	Ammonium	-	g
polyols	-		g	Calcium	-	g
starches	-		g	Chloride	-	g
Fat			g	Chromium	-	g
- of which, saturates	-		g	Copper	-	g
mono-unsaturates	-		g	Iodine	-	g
poly-unsaturates	-		g	Iron	-	g
Protein	-		g	Lithium	-	g
Fibre	-		g	Magnesium	approx. 25	g
Alcohol	-		g	Manganese	-	g
Organic acid	-		g	Molybdenum	-	g
Salt (Calculated from sodium content)	-		g	Phosphorus	-	g
				Potassium	-	g
				Selenium	-	g
				Sodium	-	g
				Strontium	-	g
				Zinc	-	g

Product Documentation

- ◆ Kosher
- ◆ Halal
- ◆ GMO-free
- ◆ BSE/TSE-free
- ◆ API documentation (DMF) on request
- ◆ CEP
 - Magnesium Carbonate, heavy CEP 2008-071
 - Magnesium Carbonate, light CEP 2010-062
- ◆ Cosmetic statement on request

Retest Period

36 months

Storage Conditions

Keep well closed, dry and at room temperature

Packaging

25 kg – different types of packaging are available on request

Magnesium Carbonate

Certification

Our company is GMP (according part II – active pharmaceutical substances), FSSC 22000/ISO 22000 and DIN EN ISO 9001:2015 certified, and our products are: Made in Germany.
In March 2012 our production site in Emmerthal was successfully inspected by the FDA (U.S. Food and Drug Administration) in the context of FSMA (food safety modernization act).

References

- ¹ Regulation (EC) No 1925/2006 of the European Parliament and of the Council on the addition of vitamins and minerals and of certain other substances to foods
- ² Directive 2002/46/EC of the European Parliament and of the Council on the approximation of the laws of the Member States relating to food supplements
- ³ Regulation (EU) No 609/2013 of the European Parliament and of the Council on food intended for infants and young children, food for special medical purposes, and total diet replacement for weight control
- ⁴ Regulation (EC) No 1333/2008 of the European Parliament and of the Council on food additives