Chemie Ma-dani Hamadan Co. (CMHCO)

شرکت شیمی معدنی همدان «سهامی خاص»

TECHNICAL DATA SHEET

Obarin® B102

Product information

Precipitated Calcium Carbonate (PCC),
According to the norm ISO 3262-6: 1998 (E)

SHORT DESCRIPTION OF PRODUCTS:

Inorganic treated, White and very fine powder, with needle regular particle shape, odorless, with pigment properties.

CHEMICAL PROPERTIES:

CaCo3	(ISO 3262-1)	98.5% min.
MgCo3		0.60% max.
Fe2O3		0.02% max.
Insoluble matter in HC	(ISO 3262-6)	0.20% max.

PHYSICAL PROPERTIES:

Fineness:		
Particle < 2 µm	Cilas 1064	50%
Particle < 5 µm	Cilas 1064	85%
Mean particle size (d50%)	Cilas 1064	2.01 µm
Top cut (d97%)	Cilas 1064	6.15 µm
Residue on 45 µm sieve	(ISO 787-7)	0.015% max.
Whiteness:	(ISO 2740)	96-97%
Hue		Bluish tone
Crystal structure		Calcite - Aragonite
Moisture (ex works)	(ISO 787-2)	0.2% max.

GENERAL DATA:

Specific Gravity		2.70-2.70
Free flowing density	(ISO 903)	260-280 g/cm³
Density after tamping	(ISO 787-11)	470-475 g/cm³
pH value	(ISO 787-9)	9.0 – 9.5
Water absorption	(ISO 787-5)	55-57 g/100g
Oil absorption	(ISO 787-5)	46-48 g/100g
DOP absorption	(ISO 787-5)	78-80 g/100g
DV		3.1-3.4

MAIN APPLICATIONS:

In paints and Coatings as a functional filler with pigment properties, extender for Titanium Dioxide in paints industry for emulsion paints (indoor & outdoor) and varnishes,
Printing inks and printing paste,
In paper industry as filler for paper, loading and coating.
(Optimize the use of Titanium Dioxide).

In toothpastes for its rheological behavior, low abrasive cleaning and polishing properties.
As a basic material with high purity for chemical reactions and as Ca- source.

In plastic industry as white functional filler with processing aid properties.

PARTICLE SIZE DISTRIBUTION