

Mach: Manakeb for Chemicals

Technical Data Sheet

Mach 1

Description

Mach 1 is a fine particle size, high brightness calcium carbonated derived from pure limestone. It is characterized by its high whiteness. Mach 1 is used in paper, Powder coating (glossy finish), water-based paints, solvent based paints, protective paints, printing inks, adhesives and sealants.

Chemical Composition and Physical Properties

Chemical Composition	
Content CaCO ₃	99 % Min
Content MgCO ₃	0.20 % Max
Content Fe ₂ O ₃	0.01 % Max
Content AL ₂ O ₃	0.04 % Max
Content SiO ₂	0.01 % Max
Content Na ₂ O	0.05 % Max
Content CaO	56.06% Max
L.O.I	43.89 % MAX

Physical properties	
Whiteness	96% MIN (DIN 6174)
Refractive Index	1.59 %
Humidity	0.2 % MAX
Hardness (Mohs)	3.00
Density of CaCO ₃	2.730 g/cm ³
PH	9 (ISO 787/9)
Oil Absorption	23.0 ml/100g (ISO 787/5)
Bulk Density	0.70 g/ml (ISO 787/11)

Fineness

Particle Size Distribution by SEDIGRAPH 5120:

Particles < 2 µm	Main Particle Size (D50)	Top Cut (D98)
25 ± 2 µm	4.0 µm MAX	15.0 ± 1.00 µm

Cumulative finer mass percent vs. Diameter

