

# Mach: Manakeb for Chemicals

## Technical Data Sheet

Mach 3

### Description

Mach 3 is a fine particle size, high brightness calcium carbonated derived from pure limestone. It is characterized by its high whiteness. Mach 3 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 <sub>3</sub>	99 % Min
Content MgCO <sub>3</sub>	0.20 % Max
Content Fe <sub>2</sub> O <sub>3</sub>	0.01 % Max
Content AL <sub>2</sub> O <sub>3</sub>	0.04 % Max
Content SiO <sub>2</sub>	0.01 % Max
Content Na <sub>2</sub> O	0.05 % Max
Content CaO	56.06% Max
L.O.I	43.89 % MAX

Physical properties	
Whiteness	95% MIN (DIN 6174)
Refractive Index	1.59 %
Humidity	0.2 % MAX
Hardness (Mohs)	3.00
Density of CaCO <sub>3</sub>	2.730 g/cm <sup>3</sup>
PH	9 (ISO 787/9)
Oil Absorption	21.0 ml/100g (ISO 787/5)
Bulk Density	0.80 g/ml (ISO 787/11)

### Fineness

Particle Size Distribution by SEDIGRAPH 5120:

Particles < 2 µm	Main Particle Size (D50)	Top Cut (D98)
15 ± 2 µm	5.8 µm MAX	30.0 ± 2.00 µm

### Cumulative finer mass percent vs. Diameter

