

# Technical Data Sheet

## Diamond Cluster

**INCI NAME:** Mica (and) Titanium Dioxide

**APPEARANCE:** Grey-white glimmering powder

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<b>CHEMICAL COMPOSITION:</b>	%	C.I.No.	CAS No.	EINECS No.
Mica	85.0 – 90.0	77019	12001-26-2	310-127-6
TiO <sub>2</sub>	10.0 – 15.0	77891	13463-67-7	236-675-5

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**PARTICLE SIZE:** 10.0 – 150.0 µm (80 % within range)  
(Laserbeam Diffraction; Malvern 2000) 65.0 – 82.0 µm (D50: median size)

**pH:** 4.0 – 8.0  
(10 % aqueous dispersion; ISO 787-9)

**LOSS ON DRYING:** < 0.5 %  
(105°C; 2 hours; ISO 787-2)

**MICROBIAL PURITY:** Total Viable Aerobic Count < 100 CFU/g  
(USP, Ph. Eur.)

E. coli	absent in 1 g
Pseudomonas aeruginosa	absent in 1 g
Staphylococcus aureus	absent in 1 g
Salmonella species	absent in 10 g
Gram negative bacteria	absent in 1 g
Candida albicans	absent in 1 g

**HEAVY METALS:** As < 2 ppm Hg < 1 ppm  
(Modified CTFA and internal methods) Ba < 50 ppm Ni < 10 ppm  
Cd < 3 ppm Pb < 10 ppm  
Cr < 100 ppm Sb < 1 ppm  
Cu < 50 ppm Zn < 50 ppm

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### ADDITIONAL DATA:

The following data is included for informational purposes only and is not part of the product specifications.

**BULK DENSITY:** (Scott Volumeter) 3.1 – 4.1 g/in<sup>3</sup>  
**OIL ABSORPTION:** (ASTM D281-84) appr. 100 g/100 g pigment  
**SHELF LIFE:** 5 Years

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