

technical datasheet

1.17735 Colorona® Precious Gold

Cosmetic Pigment

CHEMICAL COMPOSITION:	%	COLOR INDEX NO.	CAS NO.	EINECS NO.
*Mica	20.0 - 51.0	77019	12001-26-2	310-127-6
Titanium Dioxide	19.0 - 29.0	77891	13463-67-7	236-675-5
*Silicon Dioxide	15.0 - 25.0		7631-86-9	231-545-4
Iron Oxide	15.0 - 25.0	77491	1309-37-1	215-168-2
Tin Oxide	≤1.0		18282-10-5	242-159-0

INCI NAME: Mica, CI 77891 (Titanium Dioxide), Silica, CI 77491 (Iron Oxides), Tin Oxide

APPEARANCE: Golden powder

PARTICLE SIZE: 10.0 - 60.0 µm (80 % within range)
(laser diffraction) 18.0 - 25.0 µm (D₅₀: median size)

pH: 4.0 - 9.0
(10% aqueous suspension, ISO 787-9)

LOSS ON DRYING: ≤ 0.5 %
(105°C, 2 hours, ISO 787-2)

MICROBIAL PURITY: (USP, Ph. Eur., JP.)	Total Viable Aerobic Count	≤ 100 CFU/g
E. coli		absent in 1 g
Pseudomonas aeruginosa		absent in 1 g
Staphylococcus aureus		absent in 1 g
Salmonella species		absent in 10 g
Candida albicans		absent in 1 g
Gram negative bacteria		absent in 1 g

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



ADDITIONAL DATA:

The following data is included for information purposes and is not part of the product specifications:

BULK DENSITY: 30 - 40 g/100 ml
(ISO 3923-2, ASTM B329-06)

OIL ABSORPTION: 55 - 75 g/100 g
(ISO 787-5, ASTM D281)

SHELF LIFE: 10 years

DATE OF ISSUE: 2016

NOTE: For further information see Specification and Material Safety Data Sheet.

Tin Oxide is used as an auxiliary agent, not as a colorant.

*These following properties are warranted to meet the indicated limits, but Merck KGaA, Darmstadt, Germany does not perform these tests in lot acceptance.

Products are warranted to meet the specifications set forth on their label/packaging and/or certificate of analysis at the time of shipment or for the expressly stated duration. MERCK MAKES NO REPRESENTATION OR WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE REGARDING OUR PRODUCTS OR ANY INFORMATION PROVIDED IN CONNECTION THEREWITH. Customer is responsible for and must independently determine suitability of Merck's products for customer's products, intended use and processes, including the non-infringement of any third parties' intellectual property rights. Merck shall not in any event be liable for incidental, consequential, indirect, exemplary or special damages of any kind resulting from any use or failure of the products: All sales are subject to Merck's complete Terms and Conditions of Sale. Prices are subject to change without notice. Merck reserves the right to discontinue products without prior notice.

Merck, the vibrant M, Colorona® are trademarks of Merck KGaA, Darmstadt, Germany.

