

# Technical Data Sheet



## Sienna Fine Cosmetic Pigment

<b>PRODUCT NO.</b>	MICA S-11
<b>INCI NAME:</b>	Iron Oxides (and) Mica
<b>APPEARANCE:</b>	Red lustrous powder

<b>CHEMICAL COMPOSITION:</b>	%	C.I.No.	CAS No.	EINECS No.
Fe <sub>2</sub> O <sub>3</sub>	55.0 – 65.0	77491	1309-37-1	215-168-2
Mica	35.0 – 45.0	77019	12001-26-2	310-127-6

<b>PARTICLE SIZE DISTRIBUTION:</b> (Laser Diffraction)	5.0 – 25.0 µm 7.0 – 14.0 µm	(80 % within range) (D50: median size)
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**pH:**  
(10 % aqueous dispersion; ISO 787-9)

3.0 – 7.0

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

< 0.5 %

**MICROBIAL PURITY:**  
(USP, Ph. Eur.)

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
Gram negative bacteria	absent in 1 g
Candida albicans	absent in 1 g

**HEAVY METALS:**  
(Modified CTFA 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 informational purposes only and is not part of the product specifications.

<b>BULK DENSITY:</b> (Scott Volumeter)	3.1 – 3.6 g/in <sup>3</sup>
<b>OIL ABSORPTION:</b> (ASTM D281-84)	appr. 75 g/100 g pigment
<b>SHELF LIFE:</b>	10 Years

**DATE:** 06/2018