

Almacén y oficinas: Avenida Real de Pinto 142 (28021 Madrid) – Telf. 917 953 012 - Fax 917 953 249

Tienda Madrid: Desengaño 22 (28004 Madrid) – Teléfono 915 225 824 – Fax 915 325 043

Tienda Sevilla: Avenida Menéndez Pelayo, 57 - 59 41012 Sevilla – Teléfono 954 622 765 - Fax 954 297104

[www.manuelriesgo.com](http://www.manuelriesgo.com)

## HIERRO OXIDO AMARILLO COSMETICO-ALIMENTACION ZE13

### FICHA TÉCNICA

#### General Description

Chemical Formula: FeOOH

Type: High purity YELLOW iron oxide pigment

Colour Index: Pigment Yellow 42 (77492)

CAS No.: 51274-00-1

EINECS No.: 257-098-5

Form: Powder

#### Technical Data - Specified Values

	<u>min.</u>	<u>max.</u>	<u>Test Method</u>
Colour Tolerance against current standard <sup>(1)</sup> :			
□ E* Reduced Shade <sup>(2)</sup>		MAX 1.5	LOR-10
Relative Tinting Strength (%) <sup>(2)</sup>	95	-105	LOR-10
Water Soluble Salts (%)		MAX 0.6	LO-05
Sieve Residue on 44 □ Mesh (%)		MAX 0.3	LO-08
Ph		3.5-7	LO-06

**Metals** – In accordance with Commission Regulation (EU) N° 231/2012 (E172) and with the requirements of FDA 21.CFR.73.200, 21.CFR.73.1200, 21.CFR.73.2250, 21.CFR.73.3125, USP, JPE, JECFA and WHO/FAO

Specified Values:

Test Method

Arsenic As max ppm 2 LO-27

Cadmium Cd max ppm 1 LO-27

Chromium Cr max ppm 100 LO-27

Mercury Hg max ppm 1 LO-27

Nickel Ni max ppm 200 LO-27

Lead Pb max ppm 10 LO-27

Copper Cu max ppm 50 LO-27

Zinc Zn max ppm 100 LO-27

Total Heavy metals (as Pb) 30 ppm (external)

#### Technical Data - Typical Values

Fe<sub>2</sub>O<sub>3</sub> Content (%) 86+ LO-16

Particle Shape Acicular T.E.M. <sup>(3)</sup>

Average Particle Size (□m) 0.1 x 0.4 T.E.M. <sup>(3)</sup>

Specific Gravity (g/cm<sup>3</sup>) approx. 4.1 ISO DIN 787/10

Tamped Apparent Density (g/cm<sup>3</sup>) 0.5 LO-10

Oil Absorption approx. 50 LO-07

Water Content ex. works (%) max. 1 LOG-25

**Almacén y oficinas: Avenida Real de Pinto 142 (28021 Madrid)** – Telf. 917 953 012 - Fax 917 953 249

**Tienda Madrid:** Desengaño 22 (28004 Madrid) – Teléfono 915 225 824 – Fax 915 325 043

**Tienda Sevilla:** Avenida Menéndez Pelayo, 57 - 59 41012 Sevilla – Teléfono 954 622 765 - Fax 954 297104

[www.manuelriesgo.com](http://www.manuelriesgo.com)

---

## **Microbiology** – In accordance with Ph. Eur. 2.6.12, 2.6.13 (7<sup>th</sup> Edition)

### Test Parameter Requirement

Total Aerobic Microbial Count (TAMC) Max. 2,000 cfu/g

Total Combined Yeasts and Moulds Count (TYMC) Max. 200 cfu/g

Enterobacteria Negative in 1g

Escherichia coli Negative in 1g

Pseudomonas aeruginosa Negative in 1g

Candida albicans Negative in 1g

Staphylococcus aureus Negative in 1g

Pseudomonaceae Negative in 1g

Coliforms Negative in 1g

Salmonella Negative in 10g

### **Notes:**

1. Short oil aldkyd resin/melamine formaldehyde resin stoving enamel
2. 1:3 with TiO<sub>2</sub>
3. T.E.M. = Transmission electron microscopy
4. All data is given in good faith but without warranty.