

# VENATOR

## Technical Data Sheet

Ref: SV-Y10  
Date: 07-02-2020  
Version: 017  
Page: 1 of 2

**Commercial Name:** SICOVIT® Yellow 10 E172

**Manufacturer:** Venator Pigments S.r.l.

### 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>Test Parameter</u>  | <u>min.</u> | <u>max.</u> | <u>Test Method</u> | <u>Based on</u> |
|--|-------------|-------------|--------------------|-----------------|
| Colour Tolerance against current standard:                       |             |             |                    |                 |
| ΔE Full Shade  |             | 1.5         | LO-53              | Internal method |
| ΔE Reduced Shade (corr.)   |             | 1.0         | LO-54              | Internal method |
| Relative Tinting Strength (%)                                    | 95          | 105         | LO-54              | Internal method |
| Appearance   | Must comply |             | Visual             | JPE             |
| Identification   | Must comply |             | LO-46              | JPE/USP-NF/E172 |
| Water Soluble Substances (%)                                     |             | 0.75        | LO-67              | JPE/USP-NF/E172 |
| Conductivity (μS/cm)   |             | 600         | LOG-04             | EN ISO 787-14   |
| Sieve Residue on 44 μm (325 Mesh, %)                             |             | 1.0         | LO-08              | EN ISO 787-7    |
| pH   | 6.0         | 8.0         | LO-06              | EN ISO 787-9    |
| Assay (Fe, %)  | 60.0        |             | LO-16              | E172            |
| Assay (Fe <sub>2</sub> O <sub>3</sub> , %, on the ignited basis) | 98.0        | 100.5       | LO-41              | USP-NF/JPE      |
| Loss on Ignition (%)   | 10.0        | 13.0        | LO-34              | JPE             |
| Loss on Drying (%)   |             | 1.0         | LOG-25             | EN ISO 787-2    |
| Acid Insoluble Substances  |             | 0.3%        | LO-36              | USP-NF          |
| Organic Colors and Lakes   | Must comply |             | external           | USP-NF          |

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Venator is a trading name of Venator Pigments S.r.l., Via G. Reiss Romoli, 44/12 10148 TORINO. Cap. Soc. € 3.819.930 I.V. – C.F. e Iscr. R.I. Torino 02146370263 – P.IVA IT 07365630016. Società soggetta a direzione e coordinamento di Venator Materials International UK Limited.

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**Metals** – In accordance with Commission Regulation (EU) N° 231/2012 (E172), BGBl. 1 and with the requirements of FDA 21.CFR.73.200, 21.CFR.73.1200, 21.CFR.73.2250, 21.CFR.73.3125, USP-NF, JPE, JECFA and WHO/FAO

| <u>Test Parameter</u>      |    | <u>max.</u> | <u>Test Method</u>   | <u>Based on</u> |                 |
|----------------------------|----|-------------|----------------------|-----------------|-----------------|
| Arsenic                    | As | ppm         | 1                    | LO-27           | USP-NF/JPE/E172 |
| Barium                     | Ba | ppm         | For information only | LO-27           | Internal method |
| Barium Qualitative         | Ba |             | Complies             | LO-76           | ChP             |
| Cadmium                    | Cd | ppm         | 1                    | LO-27           | E172            |
| Chromium                   | Cr | ppm         | 30                   | LO-27           | E172            |
| Mercury                    | Hg | ppm         | 0.5                  | LO-27           | USP-NF/E172     |
| Nickel                     | Ni | ppm         | 70                   | LO-27           | E172            |
| Lead                       | Pb | ppm         | 5                    | LO-27           | USP-NF/E172     |
| Copper                     | Cu | ppm         | 30                   | LO-27           | E172            |
| Zinc                       | Zn | ppm         | 50                   | LO-27           | E172            |
| Antimony                   | Sb | ppm         | 5                    | LO-27           | Internal method |
| Selenium                   | Se | ppm         | 1                    | LO-27           | Internal method |
| Total Heavy Metals (as Pb) |    | ppm         | 30                   | external        | JPE             |

**Microbiology** – In accordance with Ph. Eur. 2.6.12B, 2.6.13B

| <u>Test Parameter</u>                         | <u>Requirement</u> |
|---|--------------------|
| Total Aerobic Microbial Count (TAMC)          | Max. 1000 cfu/g    |
| Total Combined Yeasts and Moulds Count (TYMC) | Max. 100 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     |
| Salmonella                                    | Negative in 10g    |

## Standard Packaging

10 Kg bags

The aforementioned data shall constitute the agreed contractual quality of the product at the time of passing risk. The data are controlled at regular intervals as part of our quality assurance program. SELLER MAKES NO WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, BY FACT OR LAW, INCLUDING WARRANTIES OF MERCHANTABILITY OF FITNESS FOR A PARTICULAR PURPOSE.

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