

Technical Data Sheet

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Commercial Name: SICOVIT[®] Yellow 10 E172

Manufacturer: Rockwood Italia S.p.A. Divisione SILO

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
Identity	Must comply		LO-46	JPE
Water Soluble Substances (%)		0.75	LOG-04	JPE
Conductivity (μS/cm)		600	LOG-04	ISO 787-14
Sieve Residue on 44 μ (325 Mesh, %)		1.0	LO-08	ISO 787-7
pH	6.0	8.0	LO-06	EN ISO 787-9
Assay (Fe, %)	60.0		LO-16	2008/128/EC (E172)
Assay (Fe ₂ O ₃ , %, on the ignited basis)	98.0	100.5	LO-41	USP-NF
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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Metals – In accordance with Directive 2008/128/EC of 22nd December 2008 (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, 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, JECFA
Barium	Ba	ppm 30	LO-27	USP, JECFA
Cadmium	Cd	ppm 1	LO-27	USP, JECFA
Chromium	Cr	ppm 30	LO-27	USP, JECFA
Mercury	Hg	ppm 0.5	LO-27	USP, JECFA
Nickel	Ni	ppm 70	LO-27	USP, JECFA
Lead	Pb	ppm 7	LO-27	USP, JECFA
Copper	Cu	ppm 30	LO-27	USP, JECFA
Zinc	Zn	ppm 50	LO-27	USP, JECFA
Antimony	Sb	ppm 5	LO-27	USP, JECFA
Selenium	Se	ppm 1	LO-27	USP, JECFA
Total Heavy Metals (as Pb)		ppm 30	external	JPE

Microbiology – In accordance with Ph. Eur. 2.6.12B, 2.6.13B (harmonized Ph. Eur./USP/JP)

<u>Test Parameter</u>	<u>Requirement</u>
Total Aerobic Microbial Count (TAMC)	Max. 1,000 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
Pseudomonaceae	Negative in 1g
Coliforms	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.