

Technical Data Sheet

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Date: 31-10-2014
Version: 005
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Commercial Name: SICOVIT[®] Brown 70 E172

Manufacturer: Huntsman Pigments S.p.A.

General Description

Chemical Formula: Fe_2O_3 , FeOOH , Fe_3O_4
Type: High purity brown iron oxide pigment, blend
Colour Index: Red 101 (77491), Yellow 42 (77492), Black 11 (77499)
CAS No.: 1309-37-1, 51274-00-1, 1317-61-9
EINECS No.: 215-168-2, 257-098-5, 215-277-5
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)		800	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
Loss on Drying (%)		1.0	LOG-25	EN ISO 787-2
Assay (Fe, %)	60.0		LO-16	E172
Assay (Fe_2O_3 , %)*	98.0	100.5	LO-41	USP-NF

* On the ignited basis

HUNTSMAN PIGMENTS S.p.A.

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Cap. Soc. € 3.819.930 i.v. – C.F. e Iscr. R.I. Torino 02146370263 – P.IVA IT 07365630016 – R.E.A. Torino 800577

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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, 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
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	100	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

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
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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