



NEELIKON FOOD DYES AND CHEMICALS LTD.

An ISO 9001, FSSC 22000 & GMP Certified Company

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Dept. : Quality Control		Title : Finished Product Specification		Doc. No.: NFDCL/SPC/QC/BC-334

PRODUCT SPECIFICATION

PRODUCT NO. : 086P1700

PRODUCT : NFDC RED IRON OXIDE / LAVANYA LAAL

EMPIRICAL FORMULA	: Fe ₂ O ₃	CAS NO	: 1309-37-1
EC STATUS	: E 172	EINECS NO	: 215-168-2
C.I. NO	: 77491	INCI NO	: CI 77491
C.I. NAME	: PIGMENT RED 101 AND 102		

DESCRIPTION

PHYSICAL APPEARANCE	: RED POWDER
HUE IN WATER	: INSOLUBLE IN WATER
WAVELENGTH OF MAX ABSORBANCE	: N/A
ABSORPTIVITY g.cm / 100ml	: N/A
SOLUBILITY	: INSOLUBLE IN WATER AND IN ORGANIC SOLVENTS. DISSOLVE IN HCL UPON WARMING. A SMALL AMOUNT OF RESIDUE USUALLY REMAINING

SPECIFICATION

SR. NO.	TEST	UNIT	LIMIT	SPECIFICATION
1.	IDENTIFICATION	--	--	CONFIRM TO USP MONOGRAPH
2.	SOLUBILITY	--	--	INSOLUBLE IN WATER AND IN ORGANIC SOLVENTS. SOLUBLE IN CONCENTRATED MINERAL ACIDS
3.	ASSAY CONTENT (AS Fe)	% W/W	MINIMUM	68.00
4.	ASSAY CONTENT (AS Fe ₂ O ₃ CALCULATED ON IGNITED BASIS)	% W/W	MINIMUM	97 TO 100.50
5.	WATER SOLUBLE SUBSTANCES	% W/W	MAXIMUM	01.00
6.	ACID INSOLUBLE SUBSTANCES	% W/W	MAXIMUM	00.30
7.	LOSS ON IGNITION	% W/W	MAXIMUM	03.00
8.	pH of 2% SUSPENSION	--	--	6 - 8
9.	ORGANIC COLORS AND LAKES	--	--	NO PEAK, ABOVE THE NOISE LEVEL, WITH A SLOPE GREATER THAN +0.001 ABSORBANCE UNIT PER NM SHOULD BE FOUND.
10.	ARSENIC	MG/KG	MAXIMUM	03.00
11.	CADMIUM	MG/KG	MAXIMUM	01.00
12.	CHROMIUM	MG/KG	MAXIMUM	100.0
13.	COPPER	MG/KG	MAXIMUM	50.00
14.	LEAD	MG/KG	MAXIMUM	05.00
15.	MERCURY	MG/KG	MAXIMUM	01.00
16.	NICKEL	MG/KG	MAXIMUM	200.0
17.	ZINC	MG/KG	MAXIMUM	100.0
18.	ANTIMONY	MG/KG	MAXIMUM	05.00
19.	SELENIUM	MG/KG	MAXIMUM	01.00

THIS MATERIAL CONFORMS TO THE JECFA, CFR (TITLE 21, PART- 73), EU NO. 231/2012, EC 1223/2009, CHINESE, FSSAI, IS 4707 & USP REGULATIONS.

SHELF LIFE : 8 YEARS

STORAGE CONDITION: "STORE IN AN AMBIENT TEMPERATURE & DRY PLACE"

One World One Quality - products are High Purity Colours with low impurities which will meet appropriate legislation of JECFA, USA, Europe, Japan, China and India where applicable. Neelikon realizes that it is serving an ever - changing marketplace, therefore legislation and new development may cause the information contained herein to require updating. We therefore request clients to re-check with their appropriate legislative authorities before using any of our products in their intended application, or you may write to us at our technical service department at Mumbai - India.

Prepared By	Approved By	Issued By	Status
Q.C. Head	QA & QC Head	Management Representative	