



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- 344

PRODUCT SPECIFICATION

PRODUCT NO. : 088P1700

PRODUCT : NFDC BLACK IRON OXIDE / LAVANYA KUKU

EMPIRICAL FORMULA	: FeO.Fe ₂ O ₃	CAS NO	: 12227-89-3 / 1317-61-9
EC STATUS	: E 172	EINECS NO	: 235-442-5 / 215-277-5
C.I. NO	: 77499	INCI NO	: CI 77499
C.I. NAME	: PIGMENT BLACK 11		

DESCRIPTION

PHYSICAL APPEARANCE	: BLACK 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 OF AMOUNT OF RESIDUE USUALLY REMAINING

SPECIFICATION

SR. NO.	TEST	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 DRYING AT 105°C FOR 1 HR.	% W/W	MAXIMUM 01.00
8.	LOSS ON IGNITION	% W/W	MAXIMUM 03.00
9.	pH of 10% SUSPENSION	--	6.0 – 9.0
10.	ORGANIC COLORS AND LAKES	--	ABSORBANCE IN THE RANGE OF 350 - 750 nm IS NOT MORE THAN 0.01 AU.
11.	ARSENIC	MG/KG	MAXIMUM 02.00
12.	CADMIUM	MG/KG	MAXIMUM 01.00
13.	CHROMIUM	MG/KG	MAXIMUM 100.0
14.	COPPER	MG/KG	MAXIMUM 50.00
15.	LEAD	MG/KG	MAXIMUM 05.00
16.	MERCURY	MG/KG	MAXIMUM 01.00
17.	NICKEL	MG/KG	MAXIMUM 200.0
18.	ZINC	MG/KG	MAXIMUM 100.0
19.	ANTIMONY	MG/KG	MAXIMUM 05.00
20.	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	