



1300 138 203





TECHNICAL DATA SHEET

Identification:

a) Product name	: Neelicert FD & C Yellow 5 Al Lake
b) Available Form	: Powder
c) Synonyms	: Pigment Yellow 100 Lake / Tartrazine Lake / Acid Yellow 23 Lake
d) Chemical Name	: Aluminium, 4,5-dihydro-5-oxo-1-(4-sulfophenyl)-4-[(4-sulfophenyl)azo]-1H-
	pyrazole-3-carboxylic acid complex
e) Color Index No.	: 19140:1
f) Color Index Name	: Food Yellow 4:1 Lake
g) E No.	: E 102
h) CAS No.	: 12225-21-7
i) EINES No.	: 235-428-9
j) INCI Name	: CI 19140:1
k) Country of Origin	: India
I) Origin	: Synthetic
m) Wavelength of Max Absorbance	: @ 428 ± 4nm
n) Absorptivity g.cm / 100 ml	: 530
o) Chemical Structure	$\begin{array}{c c} OH - C - N - SO_3A1 \\ A IO_3S - COOA1 \end{array}$
p) Chemical Formula	: C48H33AIN12O27S6
q) Molecular Weight	: 1429.21 g/mole
r) Typical Hue	

Compositions:

Component	CAS Number	Dye Content- 12 - 18%	Dye Content- 20 - 28%	Dye Content- 37 - 44%
FD & C Yellow 5	1934-21-0	12 - 18% W/W	20 - 28 % W/W	37 - 44 % W/W
Aluminium Hydroxide	21645 -51-2	63 - 69% W/W	53 - 61 % W/W	37 - 44 % W/W
Water in the form of	7732-18-5	17.00 % W/W,	17.00 % W/W,	17.00 % W/W,
Moisture	7732-10-3	maximum	maximum	maximum
Sodium Chloride & Sulphate	7647-14-5 &	02.00 % W/W,	02.00 % W/W,	02.00 % W/W,
(As Sodium Salt)	7757-82-6	maximum	maximum	maximum

AWARDS

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Technical Data Sheet

Regulations:

This colorant meets specification of:

- a) CFR Code of Federal Regulations Title 21, Part-82.
- b) Indian Cosmetic standard IS 4707.
- c) European Food Directive (EU) No 231/2012 of 9 March 2012 for use in Food product & EC Cosmetic Directive (EC) No 1223/2009 of the council of 30 November 2009.
- d) Japanese regulations.
- e) Joint FAO/WHO Expert Committee on Food Additives (JECFA).
- f) Chinese Standards for Food Additive & Cosmetic Products.

Properties:

Physical Appearance	pH of 2% Slurry	Solution Tone	Bulk Density [G/CC]	Particle Size (Micron)
Fine Yellow Orange Powder	4 - 5.5	Not applicable	0.2 – 0.5	< 7

Solubility:

Water	Ethanol	Ethanol	Ethyl	Acetone	IPA	n-	N-Butyl	Glycerol	Propylene
	(100%)	(25%)	Acetate		(Isopropanol)	Butanol	Acetate		Glycol
Insoluble	Slightly	Slightly	Insoluble	<0.1%	Slightly Soluble	Insoluble	Insoluble	Disperse	Disperse
	Soluble	Soluble						<0.1%	<0.1%

Vegetable	Light Liquid	3:1, Sorbitol		Iso Propyl	Silicon Oil	Castor Oil
Oil	Paraffin Oil (LLP)	Methanol : n-Butanol		Maristate (IPM)		
Slightly	Insoluble	Slightly Soluble	Disperse	Insoluble	Insoluble	Disperse
Soluble			<0.1%			<0.1%

Stability:

a) pH	: 3.5 – 5.5
b) Heat	: Color is stable up to 150°C
c) Light Fastness	:6

Note:- Stability to light fastness is measured on the scale of 1 to 8 by considering Excellent= 8, Very Good=7, Good = 6, Moderate = 5, Very Fair = 4, Fair = 3, Poor = 2, Very poor = 1

Applications:

Mainly use in Food, Drugs & Cosmetic products.

Certified for use in by US FDA - Foods, drugs & cosmetics – in amounts consistent with current GMP.

Refer product brochure for more details.

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Typical guideline for use:

FD & C Yellow 5 Al Lake is insoluble & in most organic solvents but soluble in Acid & Alkali medium.

It gives coloration through Dispersion. For coloration this product, first pre-disperse in any suitable medium (like propylene glycol, glycerol any convenient medium which is compatible to final product). This dispersion is then used for the coloration of final product.

Typical Impurity Profile:

Sr.	Test	Unit	Limit	Specification
No.				
1.	HCL INSOLUBLE MATTER	%W/W	MAXIMUM	00.50
2.	BLEEDING (2 % SLURRY IN DEIONIZED WATER)	%W/W	MAXIMUM	00.10
3.	ETHER EXTRACTABLE MATTER	%W/W	MAXIMUM	00.20
4.	SUBSIDIARY COLOURS	%W/W	MAXIMUM	01.00
5.	UNSULPHONATED AROMATIC AMINES	%W/W	MAXIMUM	00.01
6.	ORGANIC COMPOUNDS OTHER THAN COLOURING MATTERS	%W/W	MAXIMUM	00.50
7.	ARSENIC	MG/KG	MAXIMUM	01.00
8.	LEAD	MG/KG	MAXIMUM	02.00
9.	MERCURY	MG/KG	MAXIMUM	01.00
10.	CADMIUM	MG/KG	MAXIMUM	01.00
11.	ANTIMONY	MG/KG	MAXIMUM	10.00
12.	COPPER	MG/KG	MAXIMUM	25.00
13.	CHROMIUM	MG/KG	MAXIMUM	25.00
14.	ZINC	MG/KG	MAXIMUM	25.00
15.	BARIUM	MG/KG	MAXIMUM	25.00
16.	MICROBIOLOGICAL SPECIFICATION			
a.	TOTAL VIABLE BACTERIAL COUNT	CFU/GM	MAXIMUM	500
b.	TOTAL FUNGI (YEAST& MOULDS) COUNT	CFU/GM	MAXIMUM	70
C.	TEST FOR PRESENCE OF Staphylococcus aureus			Absent / 1 gm
d.	TEST FOR PRESENCE OF <i>E.coli</i>			Absent / 1 gm
e.	TEST FOR PRESENCE OF Salmonella			Absent / 10 gm
f.	TEST FOR PRESENCE OF Pseudomonas aeruginosa			Absent / 1 gm

Typical Packing:

As a standard packaging we fill 12.5 Kg product in HDPE drum containing food grade LDPE bag as a primary packaging. The bag is seal with red colour one time use plastic bag locking seal. The drum is seal with red colour plastic drum seal.

Apart from that we can pack the product as per customer's requirement.

Storage & Handling:

Product "Store at an ambient Temperature & dry place" & Keep container tightly sealed & closed in condition after using. For more information refer Material Safety Data Sheet.

Shelf Life: 8 Years

Certifications:

FSSC 22000	ISO 9001	GMP	HALAL – MUI Indonesia	HALAL — ILIHE India	Kosher (Star K)
1330 22000	130 3001	CIVII	TIALAL WIOT INGOTICSIA	TIALAL JOTH HIGH	Rosilei (Stai R)

Declarations:

*	GMO Free	*	TSE/BSE Free	*	Allergen Free	*	Nitrosamines Free	*	Suitable for Vegan & Vegetarian
*	Pesticides Free	*	Melamine Free	*	Alcohol Free	*	Irradiation Free	*	No content of VOC (Volatile Organic Compounds)
*	No Plant Tissue	*	Paraben Free	*	Genotoxic Free	*	Aflatoxin Free	*	No Preservatives
*	No Animal Tissue	*	No CMR	*	Dioxin Free	*	Gluten Free	*	No Residual Solvent
*	No Additives	*	No Animal Testir	g (Cruelty Free)	*	Latex Free	*	No technology of Nano Particles

Guarantee:

Neelikon is committed to supply you best quality product, meeting legislative and statutory requirements by adopting good manufacturing practices consistently.

We hope you will be satisfied with our quality and services. We thank you for your valued support.



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ssued on: Nov-2020

Shades depicted are for reference only. Clients are advised to check samples for shade matching.

Neelikon realizes that we are serving an ever-changing marketplace. In this scenario changes in legislation may cause the information contained herein requires updating We therefore request clients to re-check with their appropriate legislative authorities before using any of our products in their intended application. Although based on our general experience, the information presented herein is believed to be reliable, Neelikon makes no representation or guarantee as to the accuracy, completeness or reliability of the information. Due to various factors that are outside our control, we cannot accept liability from reliance on this information for any circumstances.

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