

Report Number : DELC21007708-REV1



TEST REPORT

TC-5663
ULR - TC-566321221007708P

NUMBER : DELC21007708-REV1
DATE : 18-Aug-2021

APPLICANT : **Tata Steel Limited**
Tisco Works, General Office, Bistupur, Jamshedpur, East
Singhbhum, Jamshedpur, Jharkhand, 831001, India
ATTN : **Chandrani Pramanik**

THIS IS TO SUPERSEDE REPORT
NO. DELC21007708
DATED 24-Jun-2021

Sample Description : THESUBMITTED SAMPLE SAID TO BE GREEN JUTE COTTON
CANVAS BLEND FABRIC.

TESTED COMPONENT:-
[1] GREEN JUTE COTTON CANVAS BLEND FABRIC

Date Received/date Test Started : 21 Jun 2021
Date Confirmation Received : 21 Jun 2021
Buyer : NOT PROVIDED
P.O.No : -
Fiber Content : COTTON CANVAS BLEND GSM 350
Style : -
Color : GREEN
Article No :
Destination of Goods : INDIA OR USA

**TEST CONDUCTED : AS PER THE REQUEST OF THE APPLICANT. FOR FURTHER DETAILS PLEASE
REFER TO ENCLOSED PAGE(S)**

Azo Dyes

<u>TESTED SAMPLE</u>	<u>STANDARD</u>	<u>RESULT</u>
[1]	Azocolourants Content Requirement In Annex xvii Item 43 Of The Reach Regulation (EC) no. 1907/2006 & Amendment No. 522/2009 and 126/2013 (Formerly Known As Directive 2002/61/EC)	PASS

AUTHORIZED BY
FOR Intertek India Private Limited [Analytical - Gurgaon]

RAVINDRA S
LAB MANAGER - C&A

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CONCLUSION :

Chlorinated Phenols	M
Apeos	M
Pfoa Test	M
Pfos Test	M
Organotin Compounds	M
Extractable Heavy Metals	M
Carcinogenic Dyes	M
Quinoline	M
pH Value	M
Formaldehyde	M

NOTE:

M = MEETS REQUIREMENT,	F = FAILS TO MEET REQUIREMENT
* = REQUIREMENT NOT PROVIDED,	NA = NOT APPLICABLE
# = EXEMPTED,	NC = NO COMMENT,
SC = SEE COMMENT	** = REFER RESULT
## = NOT PERFORMED	MA = MARGINAL ACCEPTANCE
NR = NOT REQUESTED	D = DATA ONLY
C = CONFIRM LABEL	

REMARKS :

TESTING HAS BEEN PERFORMED IN THIS REPORT AS PER "REACH ANNEX XVII" STANDARD AS REQUESTED BY THE APPLICANT.

THE TEST REPORT NO. DELC21007708 DATED 24-JUNE-2021 HAS BEEN REVISED TO AMEND THE APPLICANT NAME & ADDRESS AS REQUESTED BY CUSTOMER.

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TEST CONDUCTED (AS REQUESTED BY THE APPLICANT)

1. Chlorinated Phenols

Koh Extraction Followed By 64 LFGB-82-02-8

	[1]	<u>Requirement</u>
Tecp	ND	1 ppm
Pcp	ND	1 ppm
Tricp	ND	1 ppm
Dcp	ND	5 ppm
Mcp	ND	5 ppm

REMARK:

ND = NOT DETECTED

DETECTION LIMIT = 0.05 ppm

ppm = PARTS PER MILLION

2. Apeos

ISO 18254-1:2016 Determined By LC-MS/MS.

	[1]	<u>Requirement</u>
Nonylphenols (Np)	ND	-
Octylphenols (Op)	ND	-
Total of [Np & Op]	ND	30 ppm
Nonylphenol Ethoxylates (Npeo)	ND	-
Octylphenol Ethoxylates (Opeo)	ND	-
Total of Npeo & Opeo	ND	100 ppm

REMARK:

ND = Not Detected

Detection Limit = 10 ppm

ppm = parts per million

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3. Organotin Compounds

▣ ISO/TS 16179 : 2012

	[1]	<u>Requirement</u>
Dibutyltin [Dbt]	ND	0.5 ppm
Tributyltin [Tbt]	ND	0.025 ppm
Dioctyl Tin [Dot]	ND	0.5 ppm
Triphenyl Tin (Tpht)	ND	0.5 ppm

REMARK:

ND = NOT DETECTED

DETECTION LIMIT FOR TBT: 0.025 PPM

DETECTION LIMIT FOR DBT, DOT, TPHT: 0.05 PPM

PPM = PARTS PER MILLION

4. Pfoa Test

▣ - BASED ON CEN/TS 15968:2010

	[1]	<u>Requirement</u>
Pfoa	ND	Not Detected

REMARK:

ND = NOT DETECTED

DETECTION LIMIT = 0.1 PPM

PPM = PARTS PER MILLION

5. Pfos Test

▣ - BASED ON CEN/TS 15968:2010

	[1]	<u>Requirement</u>
Pfos	ND	Not Detected

REMARK:

ND = NOT DETECTED

DETECTION LIMIT = 0.1 PPM

PPM = PARTS PER MILLION

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6. Extractable Heavy Metals

☐ - EN ISO 105 E04 : 2013 solution II

[1]

		<u>Requirement</u>
Sol. Antimony [Sb]	<5.00 ppm	5 ppm
Sol. Arsenic [As]	<0.10 ppm	0.2 ppm
Sol. Cadmium [Cd]	<0.05 ppm	0.1 ppm
Sol. Chromium Vi [Cr-vi]	<0.5 ppm	0.5 ppm
Sol. Cobalt [Co]	<0.30 ppm	1.0 ppm
Sol. Copper [Cu]	<5.00 ppm	25 ppm
Sol. Lead [Pb]	<0.10 ppm	0.2 ppm
Sol. Mercury [Hg]	<0.02 ppm	0.02 ppm
Sol. Nickel [Ni]	<0.30 ppm	1.0 ppm
Sol. Chromium [Cr]	<0.5 ppm	1.0 ppm

REMARK:

ppm = parts per million

< = Less than

7. Carcinogenic Dyes

☐ - DIN 54231

[1]

		<u>Requirement</u>
Disperse Blue 1	ND	NOT DETECTED
Basic Red 9	ND	
Acid Red 26	ND	
Disperse Yellow 3	ND	
Direct Blue 6	ND	
Direct Black 38	ND	
Disperse Orange 11	ND	
Basic Violet 14	ND	
Direct Red 28	ND	

REMARK:

ND = NOT DETECTED

DETECTION LIMIT = 1mg/l

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8. Quinoline

▣ As Per DIN 54231,

[1]

ND

Requirement
50 ppm

REMARK:

ND = NOT DETECTED

DETECTION LIMIT = 15 ppm

ppm = PARTS PER MILLION

9. pH Value

ISO 3071:2005.

[1]

6.4

Requirement
4.0 - 7.5

10. Formaldehyde

BS EN ISO 14184 PART-1 :2011 Determined By Uv-vis Spectrophotometer

[1]

ND

Requirement
75 ppm

REMARK:

ND = NOT DETECTED

DETECTION LIMIT = 5 ppm

ppm = PARTS PER MILLION

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11. Azo Dyes

EN ISO 14362-1: 2017 As Per European Test Procedure For Detection Of The Use Of Certain Azo Colorants By Using Gas Chromatographic-Mass Spectrometric (GC-MS) And High Performance Liquid Chromatographic (HPLC/DAD) Analysis.

[1]

<u>Forbidden Amines</u>	<u>CAS-NO</u>	<u>RESULTS</u>	<u>Requirement</u>
4-AMINOBIIPHENYL	92-67-1	N	30 ppm
BENZIDINE	92-87-5	N	
4-CHLORO-O-TOLUIDINE	95-69-2	N	
2-NAPHTHYLAMINE	91-59-8	N	
O-AMINOAZOTOLUENE	97-56-3	N	
P-CHLOROANILINE	106-47-8	N	
2,4-DIAMINOANISOLE	615-05-4	N	
4,4'-DIAMINODIPHENYLMETHANE	101-77-9	N	
3,3'-DICHLOROBENZIDINE	91-94-1	N	
3,3'-DIMETHOXYBENZIDINE	119-90-4	N	
3,3'-DIMETHYLBENZIDINE	119-93-7	N	
3,3'-DIMETHYL-4,4' DIAMINOBIIPHENYLMETHANE	838-88-0	N	
P-CRESIDINE	120-71-8	N	
4,4'-Methylene-bis-(2- chloroaniline)	101-14-4	N	
4,4'-OXYDIANILINE	101-80-4	N	
4,4'-THIODIANILINE	139-65-1	N	
O-TOLUIDINE	95-53-4	N	
2,4-TOLUENENEDIAMINE	95-80-7	N	
2,4,5-TRIMETHYLANILINE	137-17-7	N	
2-METHOXYANILINE	90-04-0	N	
P-AMINOAZOBENZENE	60-09-3	N	
2,6 XYLIDINE	87-62-7	N	
2,4-XYLIDINE	95-68-1	N	
2-AMINO-4-NITROTOLUENE	99-55-8	N	
ANILINE	62-53-3	N	
6-AMINO-2-ETHOXYNAPHTHALENE	293733-21-8	N	
4-AMINO-3-FLUOROPHENOL	399-95-1	N	
4-CHLORO-O-TOLUIDINIUM CHLORIDE	3165-93-3	N	
2-NAPHTHYLAMMONIUMACETATE	553-00-4	N	
4-METHOXY-M-PHENYLENE DIAMMONIUM SULPHATE	39156-41-7	N	
2,4,5-TRIMETHYLANILINE HYDROCHLORIDE	21436-97-5	N	

REMARK:

Summary: Presence of carcinogenic amines

N

N = Not Detected

Detection Limit = 5 ppm

ppm = parts per million

Result: Not Detected

END OF THE TEST REPORT

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