

TEST REPORT

**SOFTLINES WASTEWATER TESTING  
TEST REPORT (TEXTILES)**

Number : SHAT07590023

Date : Apr 20, 2023

Factory's name	:	JIANGYIN MEIJIE KNITTING CO. LTD.
Factory's address	:	NO. 8 SHEN XIN ROAD, SHEN GANG TOWN, LIN GANG STREET
Type of wastewater discharge	:	Indirect discharge
On-site Wastewater treatment plant	:	Without pretreatment
Average total industrial wastewater generated	:	≥ 15m <sup>3</sup> /day
Date and time of the beginning of sampling:		06 Apr, 2023 10:26
Date and time of the end of sampling:		06 Apr, 2023 15:26
Date received sample:		07 Apr, 2023 PM
Testing period:		From 07 Apr, 2023 PM to 19 Apr, 2023
Arrival temperature at laboratory:		6.6 °C
Sample type	:	
Sample / Untreated wastewater	:	Dark red, composite sample at 10:26, 11:26, 12:26, 13:26, 14:26, 15:26 Sampling location: Latitude 31°53'38"N, Longitude 120°9'30"E
Sampling laboratory	:	Intertek Testing Services Ltd., Shanghai
Testing laboratory	:	Intertek Testing Services Ltd., Shanghai
ZDHC sampler accreditation certification number	:	C74D106817399

Tests conducted:

As requested by a brand program, for details refer to attached page(s).

Prepared And Checked By:  
For Intertek Testing Services Ltd., Shanghai

*Nina Hu*

Nina Hu  
Technical Manager

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**Summary of test results:**

Wastewater / MRSL - Test items	Untreated Wastewater
Alkylphenol ethoxylates / Alkylphenols (APEOs/APs)	ND
Anti-Microbials & Biocides	ND
Chlorinated Parafins	ND
Chlorobenzenes and Chlorotoluenes	ND
Chlorophenols	ND
Dimethyl Formamide (DMFa) (*)	ND
Dyes – Carcinogenic or Equivalent Concern	ND
Dyes – Disperse (Allergenic)	ND
Dyes – Navy Blue Colourant	ND
Flame Retardants	<b>D</b>
Glycols / Glycol Ethers	ND
Halogenated solvents	ND
Organotin compounds	ND
Other/Miscellaneous Chemicals	<b>D</b>
Perfluorinated & Polyfluorinated chemicals (PFCs)	ND
Phthalates (Ortho-phthalates)	ND
Polycyclic aromatic hydrocarbons (PAHs)	ND
Restricted Aromatic Amines (Cleavable from Azo-colourants)	ND
UV Absorbers	ND
Volatile Organic Compounds (VOC)	ND

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Wastewater / Heavy metals - Test items	Effluent		
	Foundational	Progressive	Aspirational
Chromium (VI)			Meet
Arsenic			Meet
Cadmium			Meet
Lead			Meet
Mercury			Meet

Note :	
ND = Not detected (less than reporting limit)	
D = Detected	
N/A = Not applicable	- = Did not perform
# = No comment	* = See Remark
<sup>(S)</sup> = The samples were subcontracted to Intertek [xxxxx] for testing.	
<sup>(T)</sup> = If sample temperature is greater than 8°C and less than 10°C when received from the laboratory.	
<sup>(TT)</sup> = If sample temperature is exceeded 10°C when received from the laboratory.	
@ = Maximum holding time exceeded.	
(*) = Sample and report for mock leather.	
<sup>[r]</sup> = On-site test by sampler.	

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Tests Conducted (As Requested By The Applicant)

**Sample / Wastewater**

- 1 Alkylphenol (AP) and Alkylphenol Ethoxylates (APEOs): Including All Isomers:

NP/OP: With reference to ISO 18857-2 (modified dichloromethane extraction) with GC-MS analysis.

OPEO/NPEO (n>2): With reference to ASTM D7742 or ISO 18857-2 with GC-MS and LC-MS-MS analysis.

Chemical substances	CAS no.	Reporting limit (µg/L)	Untreated wastewater	Unit
Nonylphenol ethoxylates (NPEO)	9016-45-9; 26027-38-3; 37205-87-1; 68412-54-4; 127087-87-0	5	ND	µg/L
Nonylphenol (NP), mixed isomers	104-40-5; 11066-49-2; 25154-52-3; 84852-15-3	5	ND	µg/L
Octylphenol ethoxylates (OPEO)	9002-93-1; 9036-19-5; 68987-90-6	5	ND	µg/L
Octylphenol (OP), mixed isomers	140-66-9; 1806-26-4; 27193-28-8	5	ND	µg/L

Remark : ND = Not detected (less than reporting limit)

- 2 Anti- Microbials & Biocides:

OPP, Triclosan: With reference to US EPA 8270E and BS EN 12673-1999 Solvent extraction, derivatization with KOH, acetic anhydride followed by GC-MS analysis.

Permethrin: With reference to US EPA 8270E Solvent extraction, followed by GC-MS analysis.

Chemical substances	CAS no.	Reporting limit (µg/L)	Untreated wastewater	Unit
o-Phenylphenol (+salts)	90-43-7	100	ND	µg/L
Triclosan	3380-34-5	100	ND	µg/L
Permethrin	Multiple	500	ND	µg/L

Remark : ND = Not detected (less than reporting limit)

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3 Chlorinated Paraffins:

For MCCP: With reference to EPA 3510, analysis by ISO18219-2:2021 with GC-MS-NCI or LC-MS-MS analysis.  
For SCCP: With reference to EPA 3510, analysis by ISO18219-1:2021, ISO 12010:2019 with GC-MS-NCI or LC-MS-MS analysis.

Chemical substances	CAS no.	Reporting limit (µg/L)	Untreated wastewater	Unit
Medium-chain Chlorinated paraffins (MCCPs) (C14-C17)	85535-85-9	500	ND	µg/L
Short-chain Chlorinated paraffin (C10 – C13)	85535-84-8	25	ND	µg/L

Remark : ND = Not detected (less than reporting limit)

4 Chlorobenzenes And Chlorotoluenes:

With reference to USEPA 8260D, USEPA 8270E, Dichloromethane extraction followed by GC-MS analysis.

Chemical substances	CAS no.	Reporting limit (µg/L)	Untreated wastewater	Unit
1,2-Dichlorobenzene	95-50-1	0.2	ND	µg/L
Other isomers of mono-, di-, tri-, tetra-, penta- and hexa-Chlorobenzene and mono-, di-, tri-, tetra- and penta- chlorotoluene	Multiple	0.2	ND	µg/L

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5 Chlorophenols:

With reference to US EPA 8270E and BS EN 12673-1999, Solvent extraction, derivatization with KOH, acetic anhydride followed by GC-MS.

Chemical substances	CAS no.	Reporting limit (µg/L)	Untreated wastewater	Unit
2-Chlorophenol	95-57-8	0.5	ND	µg/L
3-Chlorophenol	108-43-0	0.5	ND	µg/L
4-Chlorophenol	106-48-9	0.5	ND	µg/L
2,3-Dichlorophenol	576-24-9	0.5	ND	µg/L
2,4-Dichlorophenol	120-83-2	0.5	ND	µg/L
2,5-Dichlorophenol	583-78-8	0.5	ND	µg/L
2,6-Dichlorophenol	87-65-0	0.5	ND	µg/L
3,4-Dichlorophenol	95-77-2	0.5	ND	µg/L
3,5- Dichlorophenol	591-35-5	0.5	ND	µg/L
2,3,4-Trichlorophenol	15950-66-0	0.5	ND	µg/L
2,3,5-Trichlorophenol	933-78-8	0.5	ND	µg/L
2,3,6-Trichlorophenol	933-75-5	0.5	ND	µg/L
2,4,5-Trichlorophenol	95-95-4	0.5	ND	µg/L
2,4,6-Trichlorophenol	88-06-2	0.5	ND	µg/L
3,4,5-Trichlorophenol	609-19-8	0.5	ND	µg/L
2,3,4,5-Tetrachlorophenol	4901-51-3	0.5	ND	µg/L
2,3,4,6-Tetrachlorophenol	58-90-2	0.5	ND	µg/L
2,3,5,6-Tetrachlorophenol	935-95-5	0.5	ND	µg/L
Pentachlorophenol (PCP)	87-86-5	0.5	ND	µg/L

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6 Dimethyl Formamide (DMFa):

With reference to US EPA 8270E.

Chemical substances	CAS no.	Reporting limit (µg/L)	Untreated wastewater	Unit
Dimethyl formamide; N,N-dimethylformamide (DMFa) (*)	68-12-2	1000	ND	µg/L

Remark : ND = Not detected (less than reporting limit)

(\*) Report for mock leather only.

7 Dyes – Carcinogenic or Equivalent Concern:

By Liquid extraction, LC-MS-MS analysis.

Chemical substances	CAS no.	Reporting limit (µg/L)	Untreated wastewater	Unit
Basic violet 3 with >0.1% of Michler ´s Ketone	548-62-9	500	ND	µg/L
C.I. Acid Red 26	3761-53-3	500	ND	µg/L
C.I. Acid Violet 49	1694-09-3	500	ND	µg/L
C.I. Basic Blue 26 (with Michler's Ketone > 0.1%)	2580-56-5	500	ND	µg/L
C.I. Basic Green 4 (malachite green chloride)	569-64-2	500	ND	µg/L
C.I. Basic Green 4 (malachite green oxalate)	2437-29-8	500	ND	µg/L
C.I. Basic Green 4 (malachite green)	10309-95-2	500	ND	µg/L
C.I. Basic Red 9	569-61-9	500	ND	µg/L
C.I. Basic Violet 14	632-99-5	500	ND	µg/L
C.I. Direct Black 38	1937-37-7	500	ND	µg/L
C.I. Direct Blue 6	2602-46-2	500	ND	µg/L
C.I. Direct Red 28	573-58-0	500	ND	µg/L
C.I. Disperse Blue 1	2475-45-8	500	ND	µg/L
C.I. Disperse Blue 3	2475-46-9	500	ND	µg/L
Disperse Orange 11	82-28-0	500	ND	µg/L

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8 Dyes – Disperse (Allergenic):

By Liquid extraction, LC-MS-MS analysis.

Chemical substances	CAS no.	Reporting limit (µg/L)	Untreated wastewater	Unit
Disperse Blue 102	12222-97-8	50	ND	µg/L
Disperse Blue 106	12223-01-7	50	ND	µg/L
Disperse Blue 124	61951-51-7	50	ND	µg/L
Disperse Blue 26	3860-63-7	50	ND	µg/L
Disperse Blue 35	12222-75-2 56524-77-7	50	ND	µg/L
Disperse Blue 7	3179-90-6	50	ND	µg/L
Disperse Brown 1	23355-64-8	50	ND	µg/L
Disperse Orange 1	2581-69-3	50	ND	µg/L
Disperse Orange 3	730-40-5	50	ND	µg/L
Disperse Orange 37/59/76	13301-61-6	50	ND	µg/L
Disperse Red 1	2872-52-8	50	ND	µg/L
Disperse Red 11	2872-48-2	50	ND	µg/L
Disperse Red 17	3179-89-3	50	ND	µg/L
Disperse Yellow 1	119-15-3	50	ND	µg/L
Disperse Yellow 3	2832-40-8	50	ND	µg/L
Disperse Yellow 39	12236-29-2	50	ND	µg/L
Disperse Yellow 49	54824-37-2	50	ND	µg/L
Disperse Yellow 9	6373-73-5	50	ND	µg/L

Remark : ND = Not detected (less than reporting limit)



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9 Dyes – Navy Blue Colourant:

By Liquid extraction, LC-MS-MS analysis.

Chemical substances	CAS no.	Reporting limit (µg/L)	Untreated wastewater	Unit
Component 1: C39H23Cl-CrN7O12S 2Na	118685-33-9	500	ND	µg/L
Component 2: C46H-30CrN10O20S2 3Na	Not Allocated	500	ND	µg/L

Remark : ND = Not detected (less than reporting limit)

10 Flame Retardants:

Other flame retardant substances: With reference to US EPA 8270E, Dichloromethane extraction GC-MS or LC-MS-MS analysis.

Borate salt: determined as total boron via ICP analysis.

Chemical substances	CAS no.	Reporting limit (µg/L)	Untreated wastewater	Unit
2,2-Bis(bromomethyl)-1,3-propanediol (BBMP)	3296-90-0	25	ND	µg/L
Bis(2,3-dibromopropyl) phosphate (BIS)	5412-25-9	25	ND	µg/L
Decabromodiphenyl ether (DecaBDE)	1163-19-5	25	ND	µg/L
Hexabromocyclododecane (HBCDD)	3194-55-6	25	ND	µg/L
Octabromodiphenyl ether (OctaBDE)	32536-52-0	25	ND	µg/L
Pentabromodiphenyl ether (PentaBDE)	32534-81-9	25	ND	µg/L
Polybromobiphenyls (PBBs)	59536-65-1	25	ND	µg/L
Tetrabromobisphenol A (TBBPA)	79-94-7	25	ND	µg/L
Tris-(2-chloro-1-methylethyl) phosphate (TCPP)	13674-84-5	25	ND	µg/L
Tris(1-aziridinyl)phosphine oxide (TEPA)	545-55-1	25	ND	µg/L

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Chemical substances	CAS no.	Reporting limit (µg/L)	Untreated wastewater	Unit
Tris(1,3-dichloro-isopropyl) phosphate (TDCP)	13674-87-8	25	ND	µg/L
Tris(2-chloroethyl) phosphate (TCEP)	115-96-8	25	ND	µg/L
Tris(2,3-dibromopropyl) phosphate (TRIS)	126-72-7	25	ND	µg/L
Decabromobiphenyl (DecaBB)	13654-09-6	25	ND	µg/L
Dibromobiphenyls (DiBB)	Multiple	25	ND	µg/L
Octabromobiphenyls (OctaBB)	Multiple	25	ND	µg/L
Dibromopropylether	21850-44-2	25	ND	µg/L
Heptabromodiphenyl ether (HeptaBDE)	68928-80-3	25	ND	µg/L
Hexabromodiphenyl ether (HexaBDE)	36483-60-0	25	ND	µg/L
Monobromobiphenyls (MonoBB)	Multiple	25	ND	µg/L
Monobromodiphenylethers (MonoBDEs)	Multiple	25	ND	µg/L
Nonabromobiphenyls (NonaBB)	Multiple	25	ND	µg/L
Nonabromodiphenyl ether (NonaBDE)	63936-56-1	25	ND	µg/L
Tetrabromodiphenyl ether (TetraBDE)	40088-47-9	25	ND	µg/L
Tribromodiphenylethers (TriBDEs)	Multiple	25	ND	µg/L
Boric acid	10043-35-3 11113-50-1	100 in Boron	721	µg/L
Diboron trioxide	1303-86-2	100 in Boron	406	µg/L
Disodium octaborate	12008-41-2	100 in Boron	496	µg/L
Disodium tetraborate anhydrous	1303-96-4 1330-43-4	100 in Boron	586	µg/L
Tetraboron disodium heptaoxide, hydrate	12267-73-1	100 in Boron	639	µg/L

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11 Glycols / Glycol Ethers:

With reference to US EPA 8270E, Liquid extraction, GC-MS analysis.

Chemical substances	CAS no.	Reporting limit (µg/L)	Untreated wastewater	Unit
2-ethoxyethanol	110-80-5	50	ND	µg/L
2-ethoxyethyl acetate	111-15-9	50	ND	µg/L
2-methoxyethanol	109-86-4	50	ND	µg/L
2-methoxyethylacetate	110-49-6	50	ND	µg/L
2-methoxypropylacetate	70657-70-4	50	ND	µg/L
Bis(2-methoxyethyl)-ether	111-96-6	50	ND	µg/L
Ethylene glycol dimethyl ether	110-71-4	50	ND	µg/L
Triethylene glycol dimethyl ether	112-49-2	50	ND	µg/L

Remark : ND = Not detected (less than reporting limit)

12 Halogenated Solvents:

With reference to USEPA 8260D, Purge and trap GC-MS analysis.

Chemical substances	CAS no.	Reporting limit (µg/L)	Untreated wastewater	Unit
1,2-Dichloroethane	107-06-2	1	ND	µg/L
Methylene chloride	75-09-2	1	ND	µg/L
Tetrachloroethylene	127-18-4	1	ND	µg/L
Trichloroethylene	79-01-6	1	ND	µg/L

Remark : ND = Not detected (less than reporting limit)

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13 Organotin Compounds:

With reference to ISO 17353, Derivatisation with NaB (C<sub>2</sub>H<sub>5</sub>)<sub>4</sub>, with GC-MS analysis.

Chemical substances	CAS no.	Reporting limit (µg/L)	Untreated wastewater	Unit
Dipropyltin compounds (DPT)	Multiple	0.01	ND	µg/L
Mono-, di- and tri-butyltin derivatives	Multiple	0.01	ND	µg/L
Mono, di-, and tri-methyltin derivatives	Multiple	0.01	ND	µg/L
Mono, di-, and tri-octyltin derivatives	Multiple	0.01	ND	µg/L
Mono, di-, and tri-phenyltin derivatives	Multiple	0.01	ND	µg/L
Tetrabutyltin compounds (TeBT)	Multiple	0.01	ND	µg/L
Tripropyltin Compounds (TPT)	Multiple	0.01	ND	µg/L
Tetraoctyltin compounds (TeOT)	Multiple	0.01	ND	µg/L
Tricyclohexyltin (TCyHT)	Multiple	0.01	ND	µg/L
Tetraethyltin Compounds (TeET)	Multiple	0.01	ND	µg/L

Remark : ND = Not detected (less than reporting limit)

14 Other/Miscellaneous Chemicals:

Others: With reference to Liquid extraction, LC-MS-MS analysis.

Borate salt: determined as total boron and total zinc via ICP analysis.

Chemical substances	CAS no.	Reporting limit (µg/L)	Untreated wastewater	Unit
AEEA [2-(2-aminoethylamino)ethanol]	111-41-1	500	ND	µg/L
Bisphenol A	80-05-7	10	ND	µg/L
Thiourea	62-56-6	50	ND	µg/L
Quinoline	91-22-5	50	ND	µg/L
Borate, zinc salt	12767-90-7	100 in Boron	722	µg/L

Remark : ND = Not detected (less than reporting limit)

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15 Perfluorinated & Polyfluorinated Chemicals (PFCs):

PFCs: With reference to EPA 537:2020 with LC-MSMS.

FTOH: With reference to EPA 8270E, solvent extraction followed by GC-MS.

Chemical substances	CAS no.	Reporting limit (µg/L)	Untreated wastewater	Unit
Perfluorooctane sulfonate (PFOS) and related substances, Perfluorooctanoic acid (PFOA)	Multiple	0.01	ND	µg/L
Perfluorooctanoic acid (PFOA) related substances	Multiple	1	ND	µg/L

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16 Phthalates - Including All Other Esters Of Ortho - Phthalic Acid:

With reference to USEPA 8270E, ISO 18856, Dichloromethane extraction GC-MS analysis.

Chemical substances	CAS no.	Reporting limit (µg/L)	Untreated wastewater	Unit
1,2-benzenedicarboxylic acid, di-C6-8- branched alkyl esters, C7-rich (DIHP)	71888-89-6	10	ND	µg/L
1,2-benzenedicarboxylic acid, di-C7-11- branched and linear alkyl esters (DHNUP)	68515-42-4	10	ND	µg/L
Bis(2-methoxyethyl) phthalate (DMEP)	117-82-8	10	ND	µg/L
Butyl benzyl phthalate (BBP)	85-68-7	10	ND	µg/L
Di-cyclohexyl phthalate (DCHP)	84-61-7	10	ND	µg/L
Di-iso-decyl phthalate (DIDP)	26761-40-0	10	ND	µg/L
Di-iso-octyl phthalate (DIOP)	27554-26-3	10	ND	µg/L
Di-isobutyl phthalate (DIBP)	84-69-5	10	ND	µg/L
Di-isononyl phthalate (DINP)	28553-12-0	10	ND	µg/L
Di-n-hexyl phthalate (DnHP)	84-75-3	10	ND	µg/L
Di-n-octyl phthalate (DNOP)	117-84-0	10	ND	µg/L
Di-n-pentylphthalates	131-18-0	10	ND	µg/L
Di-n-propyl phthalate (DPRP)	131-16-8	10	ND	µg/L
Di(ethylhexyl) phthalate (DEHP)	117-81-7	10	ND	µg/L
Dibutyl phthalate (DBP)	84-74-2	10	ND	µg/L
Diethyl phthalate (DEP)	84-66-2	10	ND	µg/L
Diisopentylphthalates	605-50-5	10	ND	µg/L
Dinonyl phthalate (DNP)	84-76-4	10	ND	µg/L

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17 Polycyclic Aromatic Hydrocarbons (PAHs):

With reference to US EPA 8270E, solvent extraction GC-MS analysis.

Chemical substances	CAS no.	Reporting limit (µg/L)	Untreated wastewater	Unit
Acenaphthene	83-32-9	1	ND	µg/L
Acenaphthylene	208-96-8	1	ND	µg/L
Anthracene	120-12-7	1	ND	µg/L
Benzo[a]anthracene	56-55-3	1	ND	µg/L
Benzo[a]pyrene (BaP)	50-32-8	1	ND	µg/L
Benzo[b]fluoranthene	205-99-2	1	ND	µg/L
Benzo[e]pyrene	192-97-2	1	ND	µg/L
Benzo[ghi]perylene	191-24-2	1	ND	µg/L
Benzo[j]fluoranthene	205-82-3	1	ND	µg/L
Benzo[k]fluoranthene	207-08-9	1	ND	µg/L
Chrysene	218-01-9	1	ND	µg/L
Dibenz[a,h]anthracene	53-70-3	1	ND	µg/L
Fluoranthene	206-44-0	1	ND	µg/L
Fluorene	86-73-7	1	ND	µg/L
Indeno[1,2,3-cd]pyrene	193-39-5	1	ND	µg/L
Naphthalene	91-20-3	1	ND	µg/L
Phenanthrene	85-01-8	1	ND	µg/L
Pyrene	129-00-0	1	ND	µg/L

Remark : ND = Not detected (less than reporting limit)

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18 Restricted Aromatic Amines (Cleavable from Azo-colourants):

With reference to reduction step with sodium dithionite, solvent extraction, EPA 8270E and ISO 14362-1 and ISO 14362-3 (if needed) with GC-MS and LC-MS-MS analysis.

Chemical substances	CAS no.	Reporting limit (µg/L)	Untreated wastewater	Unit
2-Naphthylamine	91-59-8	0.1	ND	µg/L
2-Naphthylammoniumacetate	553-00-4	0.1	ND	µg/L
2,4-Xylidine	95-68-1	0.1	ND	µg/L
2,4,5-Trimethylaniline	137-17-7	0.1	ND	µg/L
2,4,5-Trimethylaniline hydrochloride	21436-97-5	0.1	ND	µg/L
2,6-Xylidine	87-62-7	0.1	ND	µg/L
3,3'-Dichlorobenzidine	91-94-1	0.1	ND	µg/L
3,3'-Dimethoxybenzidine	119-90-4	0.1	ND	µg/L
3,3'-Dimethylbenzidine	119-93-7	0.1	ND	µg/L
4-Aminoazobenzene	60-09-3	0.1	ND	µg/L
4-Aminodiphenyl	92-67-1	0.1	ND	µg/L
4-Chloro-o-toluidine	95-69-2	0.1	ND	µg/L
4-Chloro-o-toluidinium chloride	3165-93-3	0.1	ND	µg/L
4-Chloroaniline	106-47-8	0.1	ND	µg/L
4-methoxy-m-phenylene diammonium sulphate; 2,4-diaminoanisole sulphate	39156-41-7	0.1	ND	µg/L
4-methoxy-m-phenylenediamine	615-05-4	0.1	ND	µg/L
4-methyl-m-phenylenediamine	95-80-7	0.1	ND	µg/L
4,4'-Methylene-bis(2-chloroaniline)	101-14-4	0.1	ND	µg/L
4,4'-methylenedi-o-toluidine	838-88-0	0.1	ND	µg/L
4,4'-methylenedianiline	101-77-9	0.1	ND	µg/L
4,4'-Oxydianiline	101-80-4	0.1	ND	µg/L
4,4'-Thiodianiline	139-65-1	0.1	ND	µg/L
5-Nitro-o-toluidine	99-55-8	0.1	ND	µg/L
6-methoxy-m-toluidine	120-71-8	0.1	ND	µg/L
Benzidine	92-87-5	0.1	ND	µg/L
o-Aminoazotoluene	97-56-3	0.1	ND	µg/L
o-Anisidine	90-04-0	0.1	ND	µg/L
o-Toluidine	95-53-4	0.1	ND	µg/L

Remark : ND = Not detected (less than reporting limit)



TEST REPORT

**SOFTLINES WASTEWATER TESTING  
TEST REPORT (TEXTILES)**

Number : SHAT07590023

Tests Conducted (As Requested By The Applicant)

19 UV Absorbers:

With reference to US EPA 8270E, solvent extraction GC-MS analysis.

Chemical substances	CAS no.	Reporting limit (µg/L)	Untreated wastewater	Unit
2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl) phenol (UV-350)	36437-37-3	100	ND	µg/L
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	100	ND	µg/L
2-benzotriazol-2-yl-4,6-di-tertbutylphenol (UV-320)	3846-71-7	100	ND	µg/L
2,4-Di-tert-butyl-6-(5-chlorobenzotriazole-2-yl) phenol (UV-327)	3864-99-1	100	ND	µg/L

Remark : ND = Not detected (less than reporting limit)

20 Volatile Organic Compounds (VOCs):

Benzene and Xylene: With reference to US EPA 8260D Purge and trap, GC-MS analysis.

m, o, p-cresol: With reference to US EPA 8270E and BS EN 12673-1999 solvent extraction, derivatization with KOH, acetic anhydride followed by GC-MS.

Toluene: With reference to HJ 1067 or EPA 8260D Purge and trap, GC-MS analysis.

Chemical substances	CAS no.	Reporting limit (µg/L)	Untreated wastewater	Unit
Benzene	71-43-2	1	ND	µg/L
m-cresol	108-39-4	1	ND	µg/L
o-cresol	95-48-7	1	ND	µg/L
p-cresol	106-44-5	1	ND	µg/L
Xylene	1330-20-7	1	ND	µg/L
Toluene (*)	108-88-3	1	ND	µg/L

Remark : ND = Not detected (less than reporting limit)

(\*) Report for mock leather only.

TEST REPORT

**SOFTLINES WASTEWATER TESTING  
TEST REPORT (TEXTILES)**

Number : SHAT07590023

Tests Conducted (As Requested By The Applicant)

21 Heavy Metals:

With reference to HJ 700, GB 7467, HJ 694.

Chemical substances	Limit			Reporting limit (mg/L)	Effluent	Unit
	Foundational	Progressive	Aspirational			
Chromium (VI)	0.05 mg/L	0.005 mg/L	0.001 mg/L	0.001	ND	mg/L
Arsenic	0.05 mg/L	0.01 mg/L	0.005 mg/L	0.005	ND	mg/L
Cadmium	0.1 mg/L	0.05 mg/L	0.01 mg/L	0.01	ND	mg/L
Lead	0.1 mg/L	0.05 mg/L	0.01 mg/L	0.01	ND	mg/L
Mercury	0.01 mg/L	0.005 mg/L	0.001 mg/L	0.001	ND	mg/L

Remark : ND = Not detected (less than reporting limit)

TEST REPORT

**SOFTLINES WASTEWATER TESTING  
TEST REPORT (TEXTILES)**

Number : SHAT07590023

Tests Conducted (As Requested By The Applicant)  
Appendix 1: reference to ZDHC WWSG v2.1 Table 4B

Parameters	Total metals and anions threshold values (mg/kg)	Disposal pathways						
		A and B (Leachate result in mg/L)	C (Leachate result in mg/L)	D (Leachate result in mg/L)	E (Leachate result in mg/L)	F (Leachate result in mg/L)	G (Leachate result in mg/L)	G (Total metals limit in mg/kg)
Arsenic	10	Report only if required to test	5	2.75	0.5	0.5	0.5	75
Cadmium	3		1	0.58	0.15	0.15	0.15	85
Total Chromium	100		15	10	5	5	5	3000
Lead	10		5	2.75	0.5	0.5	0.5	840
Antimony	12		15	7.8	0.6	0.6	0.6	Sample and report only
Barium	700		100	67.5	35	35	35	
Cobalt	1600		80	80	80	80	80	Sample and report only
Copper	200		25	17.5	10	10	10	
Nickel	70		20	11.75	3.5	3.5	3.5	420
Selenium	10		1	0.75	0.5	0.5	0.5	100
Silver	100		5	5	5	5	5	Sample and report only
Zinc	1000		250	150	50	50	50	7500
Chromium VI	50		5	3.75	2.5	2.5	2.5	50
Mercury	1		0.2	0.125	0.05	0.05	0.05	57

Appendix 2: reference to ZDHC WWSG v2.1 Table 4C

Parameters	Disposal pathways						
	A and B	C	D	E	F	G	
pH	Sample and report only	5 – 11 s.u.	5 – 11 s.u.	5 – 11 s.u.	6.5 – 9 s.u.	6.5 – 9 s.u.	
% Solids		Sample and report only	Sample and report only	Sample and report only	Sample and report only	Sample and report only	Sample and report only
Fecal Coliform				< 1000 (MPN/g)			
Paint Filter Test		Pass Paint filter test				Sample and report only	
Alkylphenol (AP) and Alkylphenol Ethoxylates (APEOs): including all isomers		< 0.4 mg/kg					
Polycyclic Aromatic Hydrocarbons (PAHs)		< 0.2 mg/kg					
Chlorotoluenes		< 0.2 mg/kg					

Appendix 3: reference to ZDHC WWSG v2.1 Table 4D

Parameters	Disposal pathways					
	A and B	C	D	E	F	G
Cyanide	Report only if required to test	100 mg/kg	85 mg/kg	70 mg/kg	70 mg/kg	70 mg/kg

TEST REPORT

**SOFTLINES WASTEWATER TESTING  
TEST REPORT (TEXTILES)**

Number : SHAT07590023

Tests Conducted (As Requested By The Applicant)

Photo of sampling points:



Photo of samples:




TEST REPORT

## SOFTLINES WASTEWATER TESTING TEST REPORT (TEXTILES)

Number : SHAT07590023

Tests Conducted (As Requested By The Applicant)

Attachment – sampling protocol for wastewater & sludge:



### ZDHC Monitoring

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**Sampling Protocol for Wastewater and Sludge acc. ZDHC SAP 2.1 incl. Apdx. E**

<b>Customer:</b>			
<b>Address:</b>			
<b>Facility type &amp; name:</b>	纺织染整 / 江阴市美杰针织有限公司		
<b>Facility location / address:</b>	江阴市南环路申新路8号		
<b>Operator of facility:</b>	孙603		
<b>Cause of sampling:</b>	ZDHC	<b>Date of sampling:</b>	2023. 4. 6
<b>Sample General ID (if available):</b>	STJ719 0023	<input type="checkbox"/> direct discharge <input checked="" type="checkbox"/> indirect discharge <input type="checkbox"/> Zero Liquid Discharge (ZLD) <input type="checkbox"/> MMCF	<input checked="" type="checkbox"/> without treatment <input type="checkbox"/> with pre-treatment <input type="checkbox"/> with own ETP Discharge to:
<b>Discharge description:</b>	污水总管 江阴市申新路工业区内污水处理有限公司		
<b>Weather conditions:</b>	on sampling day: 阴 on day before: 晴		

**Sample Type and Details (also see page 2)**

<input checked="" type="checkbox"/> Effluent Discharge	<input type="checkbox"/> direct:	<input type="checkbox"/> indirect:	<input type="checkbox"/> with Homogenisation / Equalisation Tank (HT) present:							
Enter sampling times in Sample Details (page 2), and measure field parameters.		Enter sampling time(s) for indirect discharge. Field parameters are not required, except on client's request.	Hydraulic Retention Time (HRT): h (= Volume of tank [m <sup>3</sup> ] / Flow rate [m <sup>3</sup> /h]) If HRT > 12h, grab sampling for both untreated and treated wastewater from a point after the HT could be applied.							
<input checked="" type="checkbox"/> Untreated Wastewater	<input type="checkbox"/> Incoming Water	<input type="checkbox"/> MMCF								
<input type="checkbox"/> Sludge with below disposal pathway: <table style="width: 100%; font-size: x-small;"> <tr> <td><input type="radio"/> A &gt;1000 °C offsite incineration</td> <td><input type="radio"/> B Landfill with significant control</td> <td><input type="radio"/> C Building products processed &gt;1000 °C</td> <td><input type="radio"/> D Landfill with limited control</td> <td><input type="radio"/> E Incineration / Building products processed &lt;1000 °C</td> <td><input type="radio"/> F Landfill with no control</td> <td><input type="radio"/> G Land application</td> </tr> </table>				<input type="radio"/> A >1000 °C offsite incineration	<input type="radio"/> B Landfill with significant control	<input type="radio"/> C Building products processed >1000 °C	<input type="radio"/> D Landfill with limited control	<input type="radio"/> E Incineration / Building products processed <1000 °C	<input type="radio"/> F Landfill with no control	<input type="radio"/> G Land application
<input type="radio"/> A >1000 °C offsite incineration	<input type="radio"/> B Landfill with significant control	<input type="radio"/> C Building products processed >1000 °C	<input type="radio"/> D Landfill with limited control	<input type="radio"/> E Incineration / Building products processed <1000 °C	<input type="radio"/> F Landfill with no control	<input type="radio"/> G Land application				
Sludge volume produced:		Age of sludge: days / weeks								
<input type="checkbox"/> Process Chemical <table style="width: 100%; font-size: x-small;"> <tr> <td><input type="radio"/> liquid</td> <td><input type="radio"/> solid (powder/granulate/pieces)</td> <td><input type="checkbox"/> "in process"</td> <td><input type="checkbox"/> from warehouse/storage</td> </tr> </table>		<input type="radio"/> liquid	<input type="radio"/> solid (powder/granulate/pieces)	<input type="checkbox"/> "in process"	<input type="checkbox"/> from warehouse/storage					
<input type="radio"/> liquid	<input type="radio"/> solid (powder/granulate/pieces)	<input type="checkbox"/> "in process"	<input type="checkbox"/> from warehouse/storage							
Times of sampling (if applicable)	Untreated Wastewater:	1: 10:26	2: 11:26	3: 12:26	4: 13:26	5: 14:26	6: 15:26	or Grab: _____ Sludge: _____		
	Indirect Discharge:	1:	2:	3:	4:	5:	6:		or Grab: _____	
	Incoming Water:	1:	2:	3:	4:	5:	6:		or Grab: _____	
(for direct discharge, see page 2)		Picture ID (or Date & Time / Interval): LM6 20230406-095242 -101717 -101726 -101806 -152757								
		GPS coordinates of sampling points: Incoming W.: Lat.: ON OS Long.: OE OW Untreated WW: Lat.: 31°53'38" Long.: 120°9'50" Effluent: Lat.: ON OS Long.: OE OW Sludge: Lat.: ON OS Long.: OE OW								

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TEST REPORT

**SOFTLINES WASTEWATER TESTING  
TEST REPORT (TEXTILES)**

Number : SHAT07590023

Tests Conducted (As Requested By The Applicant)



## ZDHC Monitoring

Total Quality. Assured.

**Sample Details** Field parameters usually are required only for direct discharge. If client requests also for indirect discharge, use below fields.

<input type="checkbox"/> Composite Sample	<input type="checkbox"/> Grab Sample (Use column for Averaged Readings and fields at right)						Volume of aliquot(s):	ml.
Time of taking discrete sample	1	2	3	4	5	6	Averaged Readings or Grab Sample:	
pH:								
Temp. WW discharge of receiving water	°C	°C	°C	°C	°C	°C	°C	
Flow rate:	m <sup>3</sup> /h	m <sup>3</sup> /h	m <sup>3</sup> /h	m <sup>3</sup> /h	m <sup>3</sup> /h	m <sup>3</sup> /h	m <sup>3</sup> /d av.	
Dissolved Oxygen:	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
Total Chlorine:	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
Persistent foam:	<input type="radio"/> yes <input type="radio"/> no	<input type="radio"/> yes <input type="radio"/> no	<input type="radio"/> yes <input type="radio"/> no	<input type="radio"/> yes <input type="radio"/> no	<input type="radio"/> yes <input type="radio"/> no	<input type="radio"/> yes <input type="radio"/> no		
Use comment field if number of samples is greater than six, or if above fields are otherwise not sufficient.								
Sampling technique:	<input type="radio"/> automated sampling <input checked="" type="radio"/> with beaker/bowl <input type="radio"/> other:							

**Wastewater Flow Data (Effluent/Discharge)**

System:	<input type="checkbox"/> Flow meter (in facility)	<input checked="" type="checkbox"/> Pipe (O)	<input type="checkbox"/> Flume (U)	<input type="checkbox"/> Wier (V)
Diameter [cm]	30			
Water Depth [cm]				
Flow Speed [cm/sec]	16.4			

**General Field Parameters and Sensory Data** (as far as applicable)


Type	T ambient air [°C]	Odour	Colour	Foaming	Floating matter
Incoming				<input type="radio"/> yes <input type="radio"/> no	<input type="radio"/> yes <input type="radio"/> no
Untreated	12	无	深红	<input type="radio"/> yes <input checked="" type="radio"/> no	<input type="radio"/> yes <input checked="" type="radio"/> no
Effluent				<input type="radio"/> yes <input type="radio"/> no	<input type="radio"/> yes <input type="radio"/> no

**Field Testing QA/QC**

Parameter	Lab Control Sample target value	Lab Control Sample measured value	Accuracy [%]
pH			
Total Chlorine			

Other observations: 平均流量 1000 m<sup>3</sup>/d

Additional comments (e.g., abbreviations used, alternatively measured flow and readings, etc.):

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TEST REPORT

**SOFTLINES WASTEWATER TESTING  
TEST REPORT (TEXTILES)**

Number : SHAT07590023

Tests Conducted (As Requested By The Applicant)

**intertek** ZDHC Monitoring  
Total Quality. Assured.

**ZDHC Wastewater Sampling - Facility Confirmation**  
The Wastewater samples have been collected under the facility's normal production scale and wastewater flow rate. The sampler listed below was on-site and collected the samples.

Sampling person (name & email address): Luhe.guo@intertek.com Facility Name: 江阴市美杰纺织有限公司

Sample's ZDHC accreditation no.: C74D106817399 Facility's Representative name:

Sample's Signature: lin Facility's Representative Signature and Stamp: 

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