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Customer: C0273416

Jain Irrigation Systems Ltd Jain Plastic Park N.H. No 6 P.O. Box 72 Bambhori 425001 India

Result	This product has satisfied the criteria set out in BS 6920: Part 1: 2014 "Specification" and thus is suitable for use with cold water but not hot water.
Customer Name	Jain Irrigation Systems Ltd
Product	Jain Sure Loc Column Pipe
Test Undertaken	BS 6920: 2014 - Suitability of non-metallic products for use in contact with water intended for human consumption with regard to their effect on the quality of the water
Job Number	J-00368447
PAMS Number	201636

Thank you for having your product tested by NSF Wales Ltd.

Please contact your Account Manager if you have any questions or concerns pertaining to this report.

Report Date 14-JAN-2021

Report Authorisation

Michael Bustin - Materials Testing Manager



TEST REPORT

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J-00368447

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Result Summary Section

Test	Result
Odour and flavour of water BS 6920: Part 1: 2014, Clause 4 - 23°C	Pass
Appearance of Water BS 6920: Part 1: 2014, Clause 5	Pass
Growth of Microorganisms BS 6920: Part 1: 2014, Clause 6	Pass
Extraction of substances that may be of concern to public health BS 6920: Part 1: 2014, Clause 7 - 23°C	Pass
Extraction of Metals BS 6920: Part 1: 2014, Clause 8 - 23°C	Pass



Sample Details

Date of Receipt of Application Form	27/07/2020
Date of Receipt of Product for Test	03/08/2020
Product *	Jain Sure Loc Column Pipe
Nature of Material *	UPVC
Date Test Sample Manufactured *	10/07/2020
Batch Number *	20192562
Receipt Conditions	Good Condition
Receipt Packaging	Cardboard box
Product Manufacturer * Jain Irrigation Systems L	
Product Manufacturing Site * Jalgaon, India	
Tradename and Reference of Product * Jain Sure Loc Column P	
Nethod of Manufacture * Extrusion	
Typical Use of the Product *	Conveyance of potable water
Material Manufacturer *	Reliance Industries Ltd.
Tradename and Reference of Material *	PVC K 6701
Nature of Product *	Pipe
Sampling Procedure *	Random
Address of Product Manufacturer *	Jain Plastic Park, Bambhori, Jalgaon - 425001, India

* denotes customer supplied information



Sample Preparation

Description/Appearance of the product	Blue, opaque, rigid pipe
Length	306.7 mm
Inner diameter	37.6 mm
Outer diameter	48.4 mm
Surface area of one article	84322.3 mm2
Number of articles constituting a sample	0.18
Surface area for test	14967 mm2
Calibration mark of test container	1 L
Storage Conditions	As in BS 6920: Part 2: Section 2.1: Clause 5.2



Job Attachments:

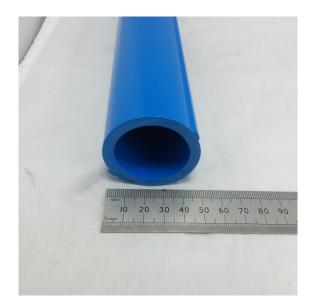


Photo 1.



Odour and flavour of water BS 6920: Part 1: 2014, Clause 4 - 23°C

Methodology: BS 6920: Part 2: Section 2.2 and in-house method PROC/MAT 004 and 006. Date Leaching Test Started: 28-OCT-2020

First Extract - Chlorinated Test Water

Panellist	Odour Descriptor	Flavour Descriptor	Flavour Dilution Number
1	None	None	1
2	None	None	1
3	None	None	1

First Extract - Chlorine Free Test Water

Panellist	Odour Descriptor	Flavour Descriptor	Flavour Dilution Number
1	None	None	1
2	None	None	1
3	None	None	1

On the basis of these results the samples of this product referred to in this report have been found to conform to the requirements of BS 6920: Part 1: 2014, Clause 4.



Appearance of Water BS 6920: Part 1: 2014, Clause 5 - 23°C

Methodology: BS 6920: Part 2: Section 2.3 and in-house methods PROC/MAT 004, PROC/MAT 027 (colour) and PROC/MAT 030 (turbidity). Date Leaching Test Started: 14-OCT-2020

First Extract

Name	Blank	Extract	Test Sample Effect
Colour (Hazen)	<2	<2	<2
Turbidity (FNU)	0.092	0.106	0.014

On the basis of these results the samples of this product referred to in this report have been found to conform to the requirements of BS 6920: Part 1: 2014, Clause 5.



Growth of Microorganisms BS 6920: Part 1: 2014, Clause 6

Methodology: BS 6920: Part 2: Section 2.4 and in-house method PROC/MIC 001.

Date Test Started: 1-SEP-2020

Incubation temperature: (30 ±1) °C

Units: mg L⁻¹O ₂

Mean Dissolved	Day 49
Oxygen Difference	
Test Sample	-0.3
Positive Reference	7.4
(paraffin wax)	
Negative Reference	-0.3
(glass)	

Mean Dissolved Oxygen	Day 49
Test Water Control	7.8

Comments: At the end of this test, the test sample showed no change in colour or appearance.

On the basis of these results the samples of this product referred to in this report have been found to conform to the requirements of BS 6920: Part 1: 2014, Clause 6.



Extraction of substances that may be of concern to public health BS 6920: Part 1: 2014, Clause 7 - 23°C

Methodology: BS 6920: Part 2: Section 2.5 and in-house methods PROC/MAT 004 and PROC/MIC 004.

Date Leaching Test Started: 14-OCT-2020

Cell concentration used: 5 x 10⁵

Cell morphology: Confluent growth of elongated cells, some round cells and cell debris. Media orange/pink in colour.

Sample/Control	Cell Morphology	Response
Test Sample	Confluent growth of elongated cells, some round cells and cell debris. Media pink in colour.	Non-Cytotoxic
Blank	Confluent growth of elongated cells, some round cells and cell debris. Media pink in colour.	Non-Cytotoxic
Negative Control	Confluent growth of elongated cells, some round cells and cell debris. Media pink in colour.	Non-Cytotoxic
Positive Control	All cells rounded and mainly still in suspension. Media pink in colour.	Cytotoxic

On the basis of these results the samples of this product referred to in this report have been found to conform to the requirements of BS 6920: Part 1: 2014, Clause 7.



Extraction of Metals BS 6920: Part 1: 2014, Clause 8 - 23°C

Methodology: BS 6920: Part 2: Section 2.6 and in-house methods PROC/MAT 006 (leachate preparation) and PROC/ING 003 (ICPMS analysis).

Date Leaching Tests Started: 7-DEC-2020

First Extract

Metal (µg/L)	MAC (µg/L)	LOD (µg/L)	Blank (µg/L)	Sample 1 (µg/L)	Sample 2 (µg/L)
Aluminium	200	20	<20	<20	<20
Antimony	5	0.5	<0.5	<0.5	<0.5
Arsenic	10	1	<1	<1	<1
Boron	1000	100	<100	<100	<100
Cadmium	5	0.5	<0.5	<0.5	<0.5
Chromium	50	5	<5	<5	<5
Iron	200	20	<20	<20	<20
Lead	10	1	<1	<1	<1
Manganese	50	5	<5	<5	<5
Mercury	1	0.1	<0.1	<0.1	<0.1
Nickel	20	2	<2	<2	<2
Selenium	10	1	<1	<1	<1
ytical Method - ICPMS Induc C - Maximum admissible cor D - Required limit of detectio	ncentration	na Mass Spectro	metry	•	

On the basis of these results the samples of this product referred to in this report have been found to conform to the requirements of BS 6920: Part 1: 2014, Clause 8.

<< Testing Laboratories >>

Flag Id

All work performed at: _____ (Unless otherwise specified)

Id NSF WALES Address

NSF Wales Ltd. 30 Fern Close Pen-Y-Fan Industrial Estate, Oakdale Gwent, NP11 3EH UK

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