



Unit 30 | Fern Close | Pen-Y-Fan Ind Est | Oakdale | Gwent | NP11 3EH | UK  
Tel: +44 (0) 1495 236260 wales@nsf.org | www.nsf.org

# TEST REPORT

**Customer: C0873470**

Dezhou Huili Water Tank Co.,LTD  
80 meters north of Tenglu Street  
Luquantun Town Development Zone,  
Wucheng County, Dezhou City  
Shandong  
China

**Facility: C0873471**

Dezhou Huili Water Tank Co.,LTD  
80 meters north of Tenglu Street  
Luquantun Town Development Zone,  
Wucheng County, Dezhou City  
Shandong  
China

<b>Result</b>	This product has satisfied the criteria set out in BS 6920: Part 1: 2014 "Specification" and thus is suitable for use with hot (up to 65°C) and cold water.
Customer Name	Dezhou Huili Water Tank Co.,LTD
Product	Huili-GRP Water Tank Panel
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-00530544
Work Order Number	W1001500

**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** 22-DEC-2025

**Report Authorisation**

Shannara Hook-Mackenzie - Manager- Analytical Testing



0626

## Result Summary Section

Test	Result
Odour and flavour of water BS 6920: Part 1: 2014, Clause 4 - 23°C	Pass
Odour and flavour of water BS 6920: Part 1: 2014, Clause 4 - 65°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 substances that may be of concern to public health BS 6920: Part 1: 2014, Clause 7 - 65°C	Pass
Extraction of Metals BS 6920: Part 1: 2014, Clause 8 - 65°C	Pass

## Sample Details

Date of Receipt of Application Form	09/JUL/2025
Date of Receipt of Product for Test	05/SEP/2025
Product *	Huili-GRP Water Tank Panel
Nature of Material *	GRP
Date Test Sample Manufactured *	01/JUL/2025
Batch Number *	20250701
Receipt Conditions	Good Condition
Receipt Packaging	BROWN PAPER
Product Manufacturer *	Dezhou Huili Water Tank Co.,Ltd
Product Manufacturing Site *	China
Tradename and Reference of Product *	Huili-GRP Water Tank Panel (HL003)
Method of Manufacture *	Hot press moulded
Typical Use of the Product *	Tank panel in contact with potable water
Nature of Product *	Sheet cut from Huili-GRP Water Tank Panel
Sampling Procedure *	Random selection from stock
Address of Product Manufacturer *	80 meters north of Tenglu Street, Luquantun Town Development Zone, Wucheng County, Dezhou City, Shandong Province China
Submitting Organization *	Dezhou Huili Water Tank Co.,LTD

\* denotes customer supplied information

## Sample Preparation

Description/Appearance of the product	Off-white, opaque, rigid tank panel
Length	109 mm
Width	57 mm
Thickness	6 mm
Surface area of one article	14418.0 mm <sup>2</sup>
Number of articles constituting a sample	1
Surface area for test	14418 mm <sup>2</sup>
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: 10-NOV-2025

### *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.

## Odour and flavour of water BS 6920: Part 1: 2014, Clause 4 - 65°C

**Methodology:** BS 6920: Part 2: Section 2.2 and in-house method PROC/MAT 004 and 006.

Date Leaching Test Started: 19-NOV-2025

### *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 - 65°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: 11-NOV-2025

### First Extract

Name	Blank	Extract	Test Sample Effect
Colour (Hazen)	<2	<2	<2
Turbidity (FNU)	<0.1	<0.1	<0.1

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 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: 14-OCT-2025

Incubation temperature: (30 ±1) °C

Units: mg L<sup>-1</sup>O<sub>2</sub>

Mean Dissolved Oxygen Difference	Day 49
Test Sample	0.0
Positive Reference (paraffin wax)	5.9
Negative Reference (glass)	0.0

Mean Dissolved Oxygen	Day 49
Test Water Control	7.5

**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: 4-NOV-2025

Cell concentration used:  $5 \times 10^5$

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

Sample/Control	Cell Morphology	Response
<b>Test Sample</b>	Confluent growth of elongated cells, some round cells and cell debris. Media pink in colour.	Non-Cytotoxic
<b>Blank</b>	Confluent growth of elongated cells, some round cells and cell debris. Media pink in colour.	Non-Cytotoxic
<b>Negative Control</b>	Confluent growth of elongated cells, some round cells and cell debris. Media pink in colour.	Non-Cytotoxic
<b>Positive Control</b>	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 substances that may be of concern to public health BS 6920: Part 1: 2014, Clause 7 - 65°C

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

Date Leaching Test Started: 11-NOV-2025

Cell concentration used:  $5 \times 10^5$

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

Sample/Control	Cell Morphology	Response
<b>Test Sample</b>	Confluent growth of elongated cells, some round cells and cell debris. Media pink in colour.	Non-Cytotoxic
<b>Blank</b>	Confluent growth of elongated cells, some round cells and cell debris. Media pink in colour.	Non-Cytotoxic
<b>Negative Control</b>	Confluent growth of elongated cells, some round cells and cell debris. Media pink in colour.	Non-Cytotoxic
<b>Positive Control</b>	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 - 65°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: 24-NOV-2025

### 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	57.4	59.9
Antimony	5	0.5	<0.5	<0.5	<0.5
Arsenic	10	1	<1	<1	<1
Boron	1000	100	<100	183	260
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

Analytical Method - ICPMS Inductively Coupled Plasma Mass Spectrometry  
MAC - Maximum admissible concentration  
LOD - Required limit of detection

**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	Address
All work performed at: (Unless otherwise specified)	→	NSF_WALES	NSF Wales Ltd. NSF Wales Ltd Unit 30 Fern Close Pen-Y-Fan Industrial Estate Oakdale, Newport NP11 3EH, UK

## NOTES

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