



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: C0861485**

Duayen Yapi Kimya ve Makina San. Tic. A.S.  
Natoyolu 18 Mart Cadessi No:23 Kat:1,  
Y.Dudullu  
Umraniye, Istanbul  
Turkey

**Facility: C0861486**

Duayen Yapi Kimya ve Makina San. Tic. A.S.  
Natoyolu 18 Mart Cadessi No:23 Kat:1,  
Y.Dudullu  
Umraniye, TR-34  
Turkey

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**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.

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Customer Name Duayen Yapi Kimya ve Makina San. Tic. A.S.  
Product DUAYEN ANTIBLAST GEÇİRIMSIZ SPREY BOYA KAPLAMA, coating  
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-00525211  
Work Order Number W0985809

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**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** 10-DEC-2025

**Report Authorisation**

Shannara Hook-Mackenzie - Manager- Analytical Testing



0626

## Result Summary Section

<b>Test</b>	<b>Result</b>
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	28/MAR/2025
Date of Receipt of Product for Test	15/AUG/2025
Date Test Sample Prepared *	25/FEB/2025
Product *	DUAYEN ANTIBLAST GEÇİRIMSİZ SPREY BOYA KAPLAMA, coating
Nature of Material *	POLYUREA
Date Test Sample Manufactured *	25/FEB/2025
Batch Number *	Not provided
Receipt Conditions	Good Condition
Receipt Packaging	PLASTIC BAG
Product Manufacturer *	DUAYEN YAPI KIMYA VE MAKINE SAN.TIC.A.S.
Product Manufacturing Site *	Turkey
Tradename and Reference of Product *	DUAYEN ANTIBLAST GEÇİRIMSİZ SPREY BOYA KAPLAMA
Method of Manufacture *	Mixing
Typical Use of the Product *	Coating in contact with potable water
Substrate *	Stainless steel
Method of Application *	Spray applied, Mix ratio vol:vol 1:1
Number and Thickness of Coats Applied *	1 coat, 2 mm
Ambient Temperature at Time of Application *	25 °C
Curing Time *	14 days
Curing Temperature *	25 °C
Curing Place *	At the facilities of the manufacturer
Preparation and Curing Conditions in Accordance with Manufacturer's Instructions *	Yes
Nature of Product *	Coated plaque
Sampling Procedure *	From production
Address of Product Manufacturer *	NATOYOLU 18 MART CADDESİ NO:23 KAT:1 Y.DUDULLUÜMRANIYE / ISTANBUL –
Submitting Organization *	DUAYEN YAPI KIMYA VE MAKINE SAN.TIC.A.S.

\* denotes customer supplied information

## Sample Preparation

Description/Appearance of the product	Black, opaque coating applied to a rigid substrate
Length	117.8 mm
Width	62.3 mm
Thickness	4.5 mm
Surface area of one article	16298.8 mm <sup>2</sup>
Number of articles constituting a sample	1
Surface area for test	16298.8 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: 22-OCT-2025

***First Extract - Chlorinated Test Water***

Panellist	Odour Descriptor	Flavour Descriptor	Flavour Dilution Number
1	Marzipan	Not Suitable for flavour - failed odour	2
2	Paint	Not Suitable for flavour - failed odour	2
3	None	Not Suitable for flavour - failed odour	2

***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

***Final Extract - Chlorinated 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: 7-OCT-2025

**First Extract**

Name	Blank	Extract	Test Sample Effect
Colour (Hazen)	<2	<2	<2
Turbidity (FNU)	0.101	0.076	-0.025

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: 23-SEP-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)	6.0
Negative Reference (glass)	0.0

Mean Dissolved Oxygen	Day 49
Test Water Control	7.6

**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: 7-OCT-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 - 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: 17-NOV-2025

**First Extract**

<b>Metal (µg/L)</b>	<b>MAC (µg/L)</b>	<b>LOD (µg/L)</b>	<b>Blank (µg/L)</b>	<b>Sample 1 (µg/L)</b>	<b>Sample 2 (µg/L)</b>
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

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

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