



BS6920 Test Report

REPORT NO. MA00001/La

PAGE 1 OF 7 PAGES

EPDM

Hydrofirm

CLIENT:	Wilo (UK) Ltd Second Avenue, Centrum 100, Burton on Trent, Staffordshire, DE14 2WJ
CLIENT'S REFERENCE:	G106115203
DATE	15/10/2025
WRITTEN BY:  CARL JONES LABORATORY ANALYST	REVIEWED BY:  LIAM MILLS INTERIM LABORATORY MANAGER

Opinions and interpretations expressed herein are outside the scope of UKAS accreditation.



Intertek Testing and Certification (UK) Ltd, Academy Place, 1-9 Brook Street,
Brentwood, Essex, CM14 5NQ. Company Registration number 1408264. Registered in
England and Wales.

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 (BS 6920: 2014)

INFORMATION AND GUIDANCE NOTE

WATER REGULATIONS APPROVAL SCHEME

The Scheme wishes to draw to the attention of product manufacturers and users that reports issued by WRAS recognised test laboratories do not of themselves constitute approval by the Scheme or the test laboratory. Only a letter from the Scheme, citing a Directory Reference Number, can be regarded as indicating approval.

1. SAMPLES FOR TESTING		
General composition of product		EPDM SH A Scale - 80
Trade name and reference of material		Hydrofirm
Material manufacturer		Prysmian Cable
Submitting organisation		Wilo (UK) Ltd
Component name/ref		Hydrofirm
Component manufacturer		Henkel
Batch number of product		SO5BC4B-F
Date of manufacture of product		05/01/2025
Method of manufacture of sample		Extruded
Sampling procedure		Random sample taken from production
Description of sample		Blue opaque shiny smooth pipe
Surface area of test piece		14969 mm ²
Number of articles constituting a test piece		1
Surface area of one article		14969 mm ²
Dimensions of test piece:	ext./int. diameter/length:	12.3 mm/10.6 mm/208.0 mm
Calibration mark of test containers		1 litre
Date of application		22/01/2025
Date of receipt of test samples		14/02/2025
Condition of samples on receipt		Satisfactory
Method of packaging		Cardboard
Conditions of storage of the samples between receipt and testing		As instructed in BS6920-2.1: 2014: clause 5.2
Proposed use of the product		Control cable, to carry a low voltage signal

2. ODOUR AND FLAVOUR OF WATER

Number of tasters in the taste panel – 3

Extraction temperature – 23°C

Date test commenced – 24/06/2025

Extract 1

(i) chlorine free test water:

TASTER	ODOUR DESCRIPTION	FLAVOUR DESCRIPTION	FLAVOUR DILUTION NUMBER
1	Nil	Nil	<1
2	Nil	Nil	<1
3	Nil	Nil	<1

(ii) chlorinated test water:

TASTER	ODOUR DESCRIPTION	FLAVOUR DESCRIPTION	FLAVOUR DILUTION NUMBER
1	Nil	Nil	<1
2	Nil	Nil	<1
3	Nil	Nil	<1

Comment - thus the samples of this product have been found to comply with the requirements of BS 6920: Part 1: clause 4 when extracted at 23°C.

3. APPEARANCE OF WATER

Extraction temperature – 23°C

Date test commenced – 20/05/2025

Extract 1

	COLOUR (HAZEN UNITS)	TURBIDITY (FORMAZINE NEPHELOMETRIC UNITS)
Test container (product)	<2.5	<0.1
Blank	<2.5	<0.1
Net increase	Nil	Nil

Comment - thus the sample of this product has been found to comply with the requirements of BS 6920: Part 1: clause 5 when extracted at 23°C.

4. GROWTH OF AQUATIC MICROORGANISMS

Date test commenced – 27/05/2025

Mean dissolved oxygen differences –

Test container (product)	0.0 mg/l
Negative reference (glass) sample	0.3 mg/l
Positive reference (wax) sample	5.3 mg/l

Note - At the end of this test the test piece showed no changes in colour and appearance.

Comment - thus the sample of this product has been found to comply with the requirements of BS 6920: Part 1: clause 6.

5. THE EXTRACTION OF SUBSTANCES THAT MAY BE OF CONCERN TO PUBLIC HEALTH

Extracts were tested using African Green Monkey Kidney (Lot 20B018)

Extraction temperature – **23°C**

Date test commenced – **25/03/2025**

EXTRACT	GROWTH OF CELL TISSUE (MONOLAYER)
Reagent blank	Healthy, confluent
Zinc sulphate validation solution (cytotoxic)	Cell death
Sample	Healthy, confluent

Comment - thus the sample of this product has been found to give a non-cytotoxic response and therefore it has been found to comply with the requirements of BS 6920: Part 1: clause 7 when extracted at **23°C**.

6. THE EXTRACTION OF METALS

Extraction temperature – **23°C**

Date test commenced – **25/03/2025**

Number of extracts – **1**

All analyses carried out on duplicate samples of the product as specified below

Aluminium, Antimony, Arsenic, Boron, Cadmium, Chromium, Iron, Lead, Manganese, Mercury, Nickel, Selenium:
Inductively coupled plasma – mass spectrometry (ICP-MS)

Extract 1

METAL	EXPRESSION OF THE RESULTS	MAX. ADMISSIBLE CONCENTRATION	REPORTING LIMIT	CONCENTRATION FINAL EXTRACT		DETERMINED REAGENT BLANKS
				I	II	
Aluminium	Al µg/L	200	20.0	< 20.0	< 20.0	< 20.0
Antimony	Sb µg/L	5	0.5	< 0.5	< 0.5	< 0.5
Arsenic	As µg/L	10	1.0	< 1.0	< 1.0	< 1.0
Boron	B µg/L	1000	100.0	< 100.0	< 100.0	< 100.0
Cadmium	Cd µg/L	5	0.5	< 0.5	< 0.5	< 0.5
Chromium	Cr µg/L	50	5.0	< 5.0	< 5.0	< 5.0
Iron	Fe µg/L	200	20.0	< 20.0	< 20.0	< 20.0
Lead	Pb µg/L	10	1.0	< 1.0	< 1.0	< 1.0
Manganese	Mn µg/L	50	5.0	< 5.0	< 5.0	< 5.0
Mercury	Hg µg/L	1	0.1	< 0.1	< 0.1	< 0.1
Nickel	Ni µg/L	20	2.0	< 2.0	< 2.0	< 2.0
Selenium	Se µg/L	10	1.0	< 1.0	< 1.0	< 1.0

Comment - thus the samples of this product have been found to comply with the requirements of BS 6920: Part 1: clause 8 when extracted at **23°C**

CONCLUSION

The samples of the products referred to in this report have been tested in accordance with the methods specified in BS 6920: Part 2: 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: Methods of test".

This product has satisfied the criteria set out in BS 6920: Part 1: 2014 "Specification" and thus complies with the requirements of the Water Regulations Approval Scheme Tests of Effect on Water Quality (BS 6920: 2014): Odour & Flavour of Water / Appearance of Water / Growth of Aquatic Microorganisms / Cytotoxicity / Extraction of Metals / Cold Water Tests (23°C). It is suitable for use with cold but not hot water.

NO OTHER TESTS WERE UNDERTAKEN ON THIS PRODUCT

N.B The results specified in this report relate only to the sample of the product submitted for testing. Any changes in the nature or source of ingredients and the process of manufacture or application could affect the suitability of the product for use in contact with potable water.

Materials and products intended for use by a public water supply company in the preparation or conveyance of water may need to satisfy more comprehensive toxicological requirements as set specified by the Drinking Water Inspectorate. These additional requirements are necessary to ensure legal compliance with Regulation 31 of Water Supply (Water Quality) Regulations 2000.

NOTE/S

This test report shall not be reproduced except in full, without written approval of the laboratory. This report is for the exclusive use of Intertek's Client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this report. Only the Client is authorized to permit copying or distribution of this report and then only in its entirety. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek. The observations and test results in this report are relevant only to the sample tested. This report by itself does not imply that the material, product, or service is or has ever been under an Intertek certification program.

By submitting this test request, unless otherwise agreed in writing, you (the client) accept and acknowledge that we (Intertek) will apply Simple Acceptance when establishing conformity of test results with any given specification, except where the given specification provides clear decision rules, which would take precedence.

Since the "Simple Acceptance" decision rule can have an associated probability of false acceptance as high as 5%, you are advised to review the guidance in the current version of ILAC G8 to understand the significance of the uncertainty of measurement in relation to any conformity statement we produce. Note that uncertainty estimates (budgets) are available on request. In the case of standard test methods, the published test precision would apply.