

MATERIALS FOR USE WITH DRINKING WATER

QUALITY TESTING

ACCREDITED BS6920 AND REGULATION 31 WATER TESTING FOR WRAS AND REGULATION 31 DWI APPROVAL

Intertek is a Total Quality Assurance provider. Through our global network of state-of-the-art facilities and industry-leading technical expertise we provide innovative and bespoke Assurance, Testing, Inspection and Certification services to customers.



Legal Requirements

Any water fitting, which when installed, will carry or receive water from the public mains water supply in the UK, must comply with the Water Supply (Water Fittings) Regulations or Scottish Byelaws.

These regulations require that a water fitting should not cause waste, misuse, undue consumption or contamination of the water supply and must be 'of an appropriate quality and standard'.

The easiest way for companies to demonstrate compliance with these regulations is through WRAS approval. This is granted directly by representatives of the water suppliers and is therefore accepted by every water supplier in the UK.

Our Expertise

Intertek is approved by the Water Regulations Approval Scheme (WRAS) to conduct water quality testing to the requirements of BS 6920, and WRAS Materials Guidance.

Intertek's WRAS testing capabilities cover both non-metallic materials and components that come into contact with drinking water.

Products must satisfy all five areas of BS6920 testing in order to gain approval, covering:

- Odour & Flavour
- Appearance of Water
- Growth of Aquatic Micro-organisms

- Cytotoxicity
- Extraction of Metals

WRAS Materials Approval

WRAS materials approval covers testing of non-metallic materials and simple components that come into contact with drinking water to demonstrate the material does not contaminate the water supply.

Products that must undergo this contamination testing include:

- Rubber materials/components
- Plastic materials/components
- Lubricants/ Greases
- Coatings/ Paints
- Cementitious materials
- Gaskets/ O-rings/ Washers
- GRP and composite materials
- Tubing & pipes

WRAS Product Approval

In addition to individual materials and components, Intertek can offer assistance with WRAS approval testing for complete products that come into contact with drinking water including:

- Valves
- Cisterns
- Taps
- Showers
- Water heaters

- Water coolers
- Fridges that dispense water and ice

WRAS product approval involves two levels of testing. The Intertek Sunbury laboratory can cover the testing requirements of the non-metallic components in compliance with BS 6920.

If found to be compliant with BS 6920 the product would then need to undergo mechanical tests on the complete fitting to gain the second level of approval, which our laboratory can advise on.

Regulation 31 Approval

Intertek is also designated by the Drinking Water Inspectorate (DWI) to carry out analysis in support of applications for approval under Regulation 31 of the water supply regulations of 2000, including BS EN 12873 leaching tests for non-metallic materials and GCMS analysis.

FOR MORE INFORMATION

 +44 1932 732 103

 materials-LHD@intertek.com

 intertek.com/water-uk



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[intertek.com/water-uk](https://www.intertek.com/water-uk)