



# ams Laboratories

Striving for Excellence - "bringing science and commerce together"

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# PRODUCT TESTING TO AS/NZS 4020 & BS 6920



## NATA ACCREDITED

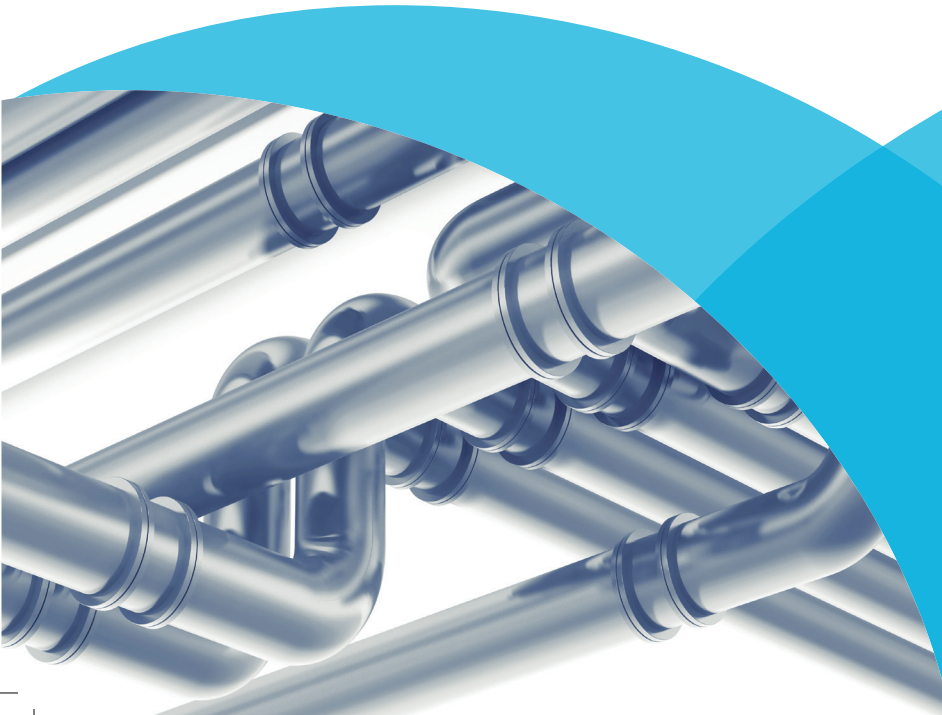
Products tested include but not limited to:

- Elastomers
- Hot Water Systems
- Greases
- Epoxy Coatings
- Tap Components
- Hoses
- Tank Linings
- Pipes
- Sealants
- Valves
- Pumps
- Paints



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# ABOUT ams

ams Laboratories was founded in 1996 and is established for doing the tests required for Australian/New Zealand Standard 4020 (AS/NZS 4020) and British Standard 6920 (BS 6920). We are NATA accredited to do testings to meet the AS/NZS 4020 and BS 6920. We test products for our customers from all over the world. Our test reports are recognised by Standards Australia and other major Water Authorities.

## AS/NZS 4020

This Standard is designed to test any product that comes in contact with drinking water. AS/NZS 4020 is introduced to guide manufacturers to ensure that components used to produce items for use in plumbing and water distribution systems that come into contact with hot or cold potable water, meet health and safety Standards. Such components can include materials used in coating, protection, lining, jointing, sealing and lubrication, while metallic and non-metallic products include pipes and fittings.

AS/NZS 4020 prescribes the methods of testing and the compliance limits for the effects of a product on the following.

- Taste of water
- Appearance of water (colour and turbidity)
- Ability of the product to support the growth of Aquatic Micro-Organisms (Microbial)
- Cytotoxic Activity of Water Extract
- Mutagenic Activity of Water Extract
- Extraction of Metals (12 metals leached from products in contact with water)
- High Temperature tests for End-of-Line Fittings, and Water - Heating systems, as well as for simulated samples.

## BS 6920

British Standard 6920 (BS 6920) specifies requirements for the suitability of non-metallic products, including water fittings and components, pipes and materials used in coating, protection, lining, jointing, sealing and lubrication, for use in contact with either hot or cold water intended for human consumption, with regard to their effect on the quality of the water.

The product is immersed in, or exposed to, test water in accordance with extraction procedures as outlined for each of the tests shown below.

- Odour and flavour of water
- Appearance
- Growth of Aquatic Micro-Organisms
- The extraction of substances that may be of concern to public health
- Extraction of Metals, including specific procedures for High Temperature tests.

Extraction is allowed to proceed for the time given in the relevant test. The final extract is then analysed in accordance with the test requirements for each test.

Products are required to comply with all tests relevant for that product type, and the results provide guidelines for, water supply quality at consumers' taps, with respect to general health requirements.

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