



**Section C: Test Samples (COMPULSORY)****i) Test Samples After Analysis:**

- Customer Pick-up       Laboratory Storage and Disposal       Freight to Customer

- Note:** 1. All sample delivery to laboratory and pick up after testing will be at the customer's expense, and own courier arrangement.  
 2. Test samples will be stored for a maximum of 1 month from date of issue of COA. If no request to return, the test samples will be subsequently disposed off at the laboratory's discretion, and no further notification will be deemed necessary.  
 3. At the customer's request, sample storage beyond the allotted time frame will incur a storage fee.  
 4. Sample return excludes ones used for microbial growth test and metallurgical analysis.

**Section D: General Information (COMPULSORY)****i) Product Designation:**(Model number, trade name, size) \_\_\_\_\_  
 \_\_\_\_\_**ii) Indicate Product Type(s):**

- Coating       Adhesive       Lining       Sealant       Lubricant       Solder flux  
 Cement / Concrete / Mortar / Grout       Membrane       Packing / Filler       Fitting       Filter / housing  
 Pipe       Simulated sample       Elastomer       Polymer       Valve       Tap Component  
 Tap assembly       Appliance (e.g. water heater, water treatment, hot water dispenser)  
 Other, please specify \_\_\_\_\_

**iii) Sample Size:**(Numbers, dimensions etc. provided for testing) \_\_\_\_\_  
 \_\_\_\_\_**iv) Sample Details:**(Batch No, Date of Manufacture, Specimen No.) \_\_\_\_\_  
 \_\_\_\_\_**v) Sampling Organisation:**

- Manufacturer       Distributor       Certifying Body

**vi) General Composition (Wetted items only):**

a) Non-metallic (including lubricant): \_\_\_\_\_

b) Metallic: \_\_\_\_\_

c) Alloy(s): \_\_\_\_\_

(Identify if ~30% or more wetted; refer to Note 3)

- Note:** 1. Complete Table 1, Page 7 in detail.  
 2. Identify and provide info, for all wetted items of composite product.  
 3. Excludes flexi and pull-out hoses in tap assembly as part of assessment of total wetted.  
 4. Provide Bill of Material, exploded diagrams etc. if available.

**vii) Product Manufacturer:**(Include address) \_\_\_\_\_  
 \_\_\_\_\_**viii) General Use of Product:**

- In-Line       End-of-Line

(Refer to Section F for "End-of-Line" definition) If both, where commonly used? \_\_\_\_\_

ix) **Temperature Range (°C):** \_\_\_\_\_  
 (Product exposure in practice; most common usage)

x) **Is the product for cold water application only?**  Yes  No  
 (Cold water application covers less than 40°C)

xi) **Is the product for hot water application?**  Yes  No  
 (Hot water application covers 40°C and over; refer to Note 2)

If yes, what is the recommended maximum holding temperature (not exceeding 100°C) for test extractions? \_\_\_\_\_°C (Refer to Note 1)

- Note:**
1. The maximum holding temperature represents the temperature nominated by the manufacturer, at which product is held in contact with water for an extended period, e.g. up to 72 hours. During this time, there is a no-flow condition through the product.
  2. If the product can be used for both cold and hot water application, the higher temperature is usually selected to cover both applications. In the case of a failure for hot water application (confirmed with repeat testing) cold water extractions at (20±2)°C are subsequently required to cover a cold water application up to less than 40°C.

xii) **Can test results be used for generic product database records?**  Yes  No  
 (Product source will not be identified)

xiii) **Do the samples provided for testing represent the finished product as will be routinely manufactured, processed and sold?**  Yes  No If not, please explain \_\_\_\_\_

xiv) **Were adhesive tape, labels, ink, pencil marking etc. used on test samples provided for testing?**  
 (If yes, may affect the final results).

This includes test pieces for microbial growth test, such as pipe and tubing.  Yes  No

### **Section E: Test Requirements (COMPULSORY)**

**Indicate option(s)**

- |  |  |
|--|--|
| <input type="checkbox"/> Complete AS/NZS 4020 Tests for product type               | <input type="checkbox"/> Metals  |
| <input type="checkbox"/> Taste   | <input type="checkbox"/> Metallurgical Analysis  |
| <input type="checkbox"/> Appearance (Colour & Turbidity)                           | <input type="checkbox"/> Product development screening. Critical tests <u>only</u> for product type, followed by evaluation prior to testing for <u>full</u> compliance. |
| <input type="checkbox"/> Growth of Aquatic Micro-organisms (microbial growth test) | <input type="checkbox"/> Other (specify) _____   |
| <input type="checkbox"/> Cytotoxicity (toxicology test)                            |  |
| <input type="checkbox"/> Mutagenicity (toxicology test)                            |  |

### **Section F: Further details, specific to Product Type (COMPULSORY)**

**Complete relevant part(s):**

a) **Assembled Composite Product** (e.g. appliance, tap assembly, valve):

i) Material detail of each wetted component, to include type of metallic or non-metallic material, ~% wetted, supplier / manufacturer, Item code, number used / component and/or product. (Provide details in Table 1, Page 7)

**b) Applied Material** (e.g. coating, adhesive):

- i) **name(s) of primer** \_\_\_\_\_  
(multiple layer – see Note 3)
- ii) **name (s) of undercoat** \_\_\_\_\_  
(multiple layer – See Note 3)
- iii) **mix ratio** \_\_\_\_\_  
(mass or volume)
- iv) **applied film thickness (mm)**  
Minimum \_\_\_\_\_ Maximum \_\_\_\_\_
- v) **minimum curing temperature (°C)** \_\_\_\_\_
- vi) **minimum curing period**  
(hours or days) \_\_\_\_\_
- vii) **relative humidity limitations (%)** \_\_\_\_\_
- viii) **end-use exposure (mm<sup>2</sup>/L)**  
(worst case scenario) \_\_\_\_\_
- ix) **site applied** (See Note 1)     Yes     No
- x) **factory applied**     Yes     No
- xi) **On site test panel preparation, report supplied.**     Yes     No  
(preparation by customer / manufacturer)
- xii) **MSDS, TDS, user manual supplied**     Yes     No

- Note:** 1. For site-applied material, intended for use in water agency' installation, the curing temperature, time and relative humidity should reflect typical field application conditions. Such materials include all coatings, sealing and jointing compounds, soldering fluxes, anaerobic adhesives and most cementitious products intended for application on site, as opposed to factory-applied.
2. Please provide complete user's instructions, MSDS, TDS (material safety and technical data sheets) and other health and safety information, which are essential to protect laboratory staff from potentially hazardous situations when testing the product.
3. For coatings containing multiple-layers such as primers and undercoats, only identify and provide for testing, all items that comprise within 1mm from the water contact surface of the cured coating.
4. If test panels are prepared by customer / manufacturer, preparation should be supervised by the testing laboratory, or an independent third-party representative, and must be approved by the certifying body. An official report on sample preparation, curing conditions, and statement confirming preparation as per manufacturer's instructions must be supplied with the test panels. Also supply documents discussed in Note 2.

**c) Cementitious Product:**     organic additives     modifiers     Unknown

i) Provide details if present. \_\_\_\_\_

**d) Biocide:** (e.g. in elastomers)i) Is there a known biocide?     Yes     No     Unknown

Provide details if present. \_\_\_\_\_

**e) Product Range:**

i) For products such as tap assemblies, pipes, identify the models and / or sizes for which qualification is sought? \_\_\_\_\_

ii) Which size (internal diameter) and / or model with highest surface area-to-volume ratio is selected for testing? \_\_\_\_\_

**Note:** 1. The model and / or size selected must represent the highest surface area-to-volume ratio for all wetted material(s)

**f) Scaling Factor:**

i) For end-of-line product (See Note 2), what is the volume retention in millilitre (mL) or Litre (L)?  
\_\_\_\_\_

ii) For in-line product, what is the volume retention (mL or L)? \_\_\_\_\_

iii) For in-line product used as a system component such as a sluice valve, what scaling factor (See Note 1) can be applied to the product? Please provide calculations.  
\_\_\_\_\_

**Note:** 1. Scaling factor represents the ratio of the exposure in the field ( $\text{mm}^2/\text{L}$ ) to the exposure ( $\text{mm}^2/\text{L}$ ) in the laboratory. This value is based on the wetted surface area exposed to the water in service. It can not be greater than 1.0. Generally 0.01 of volume retention is the maximum dilution limit for testing in-line products, and 0.1 for end-of-line products.

2. End-of-line refers to any product or part of it, including fittings, which could be installed within 250ml draw-off of a drinking water delivery point.

**g) Appliances (e.g. water heater unit, boiler dispenser, and chiller):**

i) Indicate type of water heater system: instantaneous; storage (including solar); coil, incorporating a heat exchanger or free vented / push-through? \_\_\_\_\_

ii) Normal operating temperature ( $^{\circ}\text{C}$ ) \_\_\_\_\_ iii) Maximum pre-set temperature ( $^{\circ}\text{C}$ ), if applicable \_\_\_\_\_  
(See Note 2) (See Note 1)

iv) Installation requirements: \_\_\_\_\_  
(gas supply / electrical / voltage and volume capacity, electrical outlet type etc.)

v) User's manual supplied?  Yes  No

If any special sample preparation required please provide. \_\_\_\_\_

**Note:** 1. For laboratory testing, please provide manufacturer's installation instructions, and pre-set to maximum temperature for intended use, if applicable.

2. Normal operating temperature should reflect in-use hot water temperature.

3. Maintenance personnel should be available to assist in installation.

**h) Elastomer (e.g. inner EPDM tubing of flexihose, aerator seal: components of tap assembly):**

i) Date of Manufacturer (DOM): \_\_\_\_\_  Unknown

ii) Confirm the product / item was **well ventilated and stored for at least 4 weeks from DOM** before supplying for testing?  Yes  No  Unknown

iii) Confirm no dusting powder was used?  Yes  No  Unknown

iv) Confirm no special cleaning was carried out that does not form part of the usual production procedure?  Yes  No  Unknown

**i) Simulated Sample (e.g. metal alloy):**

i) Specify manufacturing process(es) used \_\_\_\_\_

ii) Provide details of specific process(es) critical to passing the test requirements. \_\_\_\_\_

iii) Specify commercial grade (material designation). \_\_\_\_\_

iv) Measurement and recording of specific element(s) of the material where the maximum level is critical to the test requirement. \_\_\_\_\_

v) Total wetted surface area (mm<sup>2</sup>) \_\_\_\_\_ vi) Maximum end-use exposure (mm<sup>2</sup>/L) \_\_\_\_\_

vii) Does sample provided cover highest surface area-to-volume ratio of finished product(s)  
 Yes  No

viii) Provide list of actual product(s) for commercial use with similar composition and manufacturing processes. \_\_\_\_\_

**j) On Site Testing (e.g. solar water heater):**

i) Based on written instructions for sample preparation and collection of test extracts on site, and approval from certifying body, please provide report on testing conditions such as temperature of test extracts. Report supplied.  Yes  No

ii) Include declaration that all test extracts collected from installed test samples represent the product/appliance as will be used in practice. Declaration included.  Yes  No

