

## AS/NZS 4020:2018 AMD 1:2022 “TESTING OF PRODUCTS FOR USE IN CONTACT WITH DRINKING WATER”

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### Summary

**Amendment number 1 – revised test amendment applies to the following:**

- Preface
- Clauses 2, 6.8, L2 and N4.7

Some network utilities use monochloramine to disinfect drinking water in their distribution systems. This may have an effect on the release of NDMA from elastomeric products. The amendment to the standard now includes an organic compound test for elastomeric products tested in monochloramine water at a defined concentration. The maximum NDMA leachate limit for the test has been set at 30ng/L in order to comply with the Australian Drinking Water Guidelines limit of 100 ng/L for supplied water. The reasons for this are detailed in the Preface but include the impact of longer disinfectant residence time during new water pipeline commissioning.

This amendment to the standard applies to products containing elastomeric components that are used with pipes and fittings  $\geq$ DN100 specified in the following standards:

**AS/NZS 1477** PVC pipes and fittings for pressure applications

**AS/NZS 4441** Oriented PVC (PVC-O) pipes for pressure applications (ISO 16422:2014, MOD)

**AS/NZS 4765** Modified PVC (PVC-M) pipes for pressure applications

**AS/NZS 2280** Ductile iron pipes and fittings

**AS 3571.2** Plastics piping systems – Glass reinforced thermoplastics (GRP) systems based on unsaturated polyester (UP) resin Pressure and non-pressure water supply (ISO 10639:2004, MOD)

**AS 1579** Arc-welded steel pipes and fittings for water and wastewater (Reconfirmed 2018)

**EN 545** Ductile iron pipes, fittings, accessories, and their joints for water pipelines – Requirements and test methods

**EN 12842** Ductile iron fittings for PVC-U or PE piping systems – Requirements and test methods

**ISO 10639** Plastics piping systems for pressure and non-pressure water supply, drainage or sewerage – Glass reinforced thermosetting plastics (GRP) systems based on unsaturated polyester (UP) resin

**To avoid the need for a product to be tested in both test waters, the option for testing with monochloramine has also been allowed for those products that are not required to be testing in monochloramine water.**