AS 1646.3-2000 Elastomeric seals for waterworks purposes - Material requirements for pipe joints seals used in water and wastewater applications with the exception of natural rubber and polyisoprene compounds

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AS 1646.3-2000
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Cited By
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Description

This Standard specifies requirements for all elastomeric materils used in vulcanized seals with the exception of natural rubber and polyisoprene rubber for:

- cold potable water supply (up to 50C),
- hot potable and non-potable water supply (up to 110C),
- drainage, sewerage and rainwater systems (continuous flow up to 45C and intermittent flow up to 95C).

The different designations of seals specified are defined according to their type, application and requirements.

General requirements for finished joint seals are also given. Any additional requirements called for by the particular application are specified in the relevant product Standards taking into account that the performance of pipe joints is a function of the seal material properties, seal geometry and pipe joint design.

Scope

This Standard should be used, where appropriate, with product Standards that specify performance requirements for joints. It is applicable to joint seals for all pipeline materials, including iron, steel, clay, fibre cement, concrete, reinforced concrete, plastics and glass-reinforced plastics; and elastomeric components of composite or non-composite seals.

In the case of composite seals for materials of hardness ranges from 76 IRHD to 96 IRHD, the requirements for elongation at break, compression set and stress relaxation apply only when the material is participating in the sealing function, or the long-term stability of the seal.

Joint seals made with an enclosed void as part of their design are included in the scope of this Standard.

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- AS 3688-2005

  AS 1646.3-2000 is cited by AS 3688-2005 Water supply - Metallic fittings and end connectors

- AS 4139-2003

  AS 1646.3-2000 is cited by AS 4139-2003 (R2018) Fibre reinforced concrete pipes and fittings

- AS/NZS 1477:2006

  AS 1646.3-2000 is cited by AS/NZS 1477:2006 PVC pipes and fittings for pressure applications

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- AS/NZS 2566.2:2002

  AS 1646.3-2000 is cited by AS/NZS 2566.2:2002 (R2016) Buried Flexible pipelines - Installation

- AS/NZS 3500.1:2003

  AS 1646.3-2000 is cited by AS/NZS 3500.1:2003 Plumbing and drainage - Water services

- AS/NZS 4058:2007

  AS 1646.3-2000 is cited by AS/NZS 4058:2007 Pre cast concrete pipes (pressure and non-pressure)

- AS/NZS 4765:2007

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