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AS 681.1-2008 Elastomeric seals - Material requirements for pipe joint seals used in water and drainage applications - Part 1: Vulcanized rubber

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Abbreviation

AS 681.1-2008

Valid from

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Information provider

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Author

Standards Australia

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Australian Standard

Format

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Cited By

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Description

This Standard specifies requirements for materials used in vulcanized rubber seals for cold potable water supply (up to 50°C), hot potable and non-potable water supply (up to 110°C), and drainage, sewerage and rainwater systems (continuous flow up to 45°C and intermittent flow up to 95°C).

Scope

This Standard specifies requirements for materials used in vulcanized rubber seals for:

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

The different designations of seals specified are defined according to their type, application and requirements (see Table 4).

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. This standard should be used where appropriate with product standards which specify performance requirements for joints.

This standard is applicable to joint seals for all pipeline materials, including iron, steel, clay, fibre cement, concrete, reinforced concrete, plastic and glass-reinforced plastics.

It is applicable to elastomeric components of composite or non-composite seals. In the case of composite seals for materials of hardness ranges from 76 IRHD to 95 IRHD the requirements for elongation at break, compression set and stress relaxation apply only when the material is participating in the sealant 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 European Standard.

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- [AS 1646-2007](#)

AS 681.1-2008 is cited by AS 1646-2007 (R2018) Elastomeric seals for waterworks purposes

- [AS/NZS 1254:2010](#)

AS 681.1-2008 is cited by AS/NZS 1254:2010 PVC-U pipes and fittings for stormwater and surface water applications

- [AS/NZS 1260:2009](#)

AS 681.1-2008 is cited by AS/NZS 1260:2009 PVC-U Pipes and fittings for drain, waste and vent applications

- [AS/NZS 5065:2005](#)

AS 681.1-2008 is cited by AS/NZS 5065:2005 (R2016) Polyethylene and polypropylene pipes and fittings for drainage and sewerage applications

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