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ISO 15493:2003 Plastics piping systems for industrial applications - Acrylonitrile-butadiene-styrene (ABS), unplasticized poly(vinyl chloride) (PVC-U) and chlorinated poly(vinyl chloride) (PVC-C) - Specifications for components and the system - Metric

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Abbreviation

ISO 15493:2003

Amendment

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Valid from

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Standards New Zealand

Author

International Organization for Standardization

Information type

ISO Standard

Format

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Cited By

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Description

Specifies the characteristics and requirements for components such as pipes, fittings and valves made from one of the following materials:

1. acrylonitrile-butadiene-styrene (ABS);
2. unplasticized poly(vinyl chloride) (PVC-U);
3. chlorinated poly(vinyl chloride) (PVC-C);

intended to be used for thermoplastics piping systems in above-ground industrial applications.

Scope

This International Standard specifies the characteristics and requirements for components such as pipes, fittings and valves made from one of the following materials:

- acrylonitrile-butadiene-styrene (ABS);
- unplasticized poly(vinyl chloride) (PVC-U);
- chlorinated poly(vinyl chloride) (PVC-C);

intended to be used for thermoplastics piping systems in above-ground industrial applications.

This International Standard is applicable to ABS, PVC-U or PVC-C pipes, fittings, valves and ancillary equipment, to their joints and to joints with components made of other plastics and non-plastics materials, depending on their suitability, intended to be used for the conveyance of liquid and gaseous fluids as well as of solid matter in fluids for industrial applications such as:

- chemical plants;
- industrial sewerage engineering;
- power engineering (cooling and general-purpose water supply);
- electroplating and pickling plants; the semiconductor industry;
- agricultural production plants;
- water treatment.

Note 1) Where relevant, national regulations for specific applications (e.g. water treatment) apply.

Other application areas are permitted if the requirements of this International Standard and/or applicable national requirements are fulfilled.

Relevant regulations in respect of fire behaviour and explosion risk are applicable if applications are envisaged for inflammable media.

The components have to withstand the mechanical, thermal and chemical demands to be expected and have to be resistant to the fluids to be conveyed.

Characteristics and requirements which are applicable to all three materials (ABS, PVC-U and PVC-C) are covered by the relevant clauses of this International Standard. Those characteristics and requirements which are dependent on the material are given for each material in the relevant annex (see Table 1).

NOTE 2) Components conforming to any of the product standards listed in the bibliography or to national standards, as applicable, may be used with components conforming to this International Standard provided they conform to the requirements for joint dimensions and to the other relevant requirements of this standard.

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- [AS/NZS 3518:2013](#)

ISO 15493:2003 is cited by AS/NZS 3518:2013 Acrylonitrile butadiene styrene (ABS) compounds; pipes and fittings for pressure applications

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