

(PREVIEW)

*Indian Standard***POLYETHYLENE/ALUMINIUM/POLYETHYLENE  
COMPOSITE PRESSURE PIPES FOR HOT AND COLD  
WATER SUPPLIES — SPECIFICATION****1 SCOPE**

**1.1** This standard covers coextruded polyethylene composite pressure pipes ranging from 12 mm to 50 mm in diameter. These pipes are used for conveyance of hot and cold water supply for domestic and industrial purposes including internal and external plumbing, air conditioning and heating installations within buildings. This standard includes a system of nomenclature for PE-AL-PE pipes, the requirements and test methods for materials, the dimensions and strengths of finished pipe, adhesion test and the burst and sustained pressure performance test alongwith requirements and methods for marking.

**1.2** This standard relates only to metal and plastic composite pipes incorporating a welded metallic tube. The welded metallic tube itself is capable of sustaining internal pressures. The pipes consisting of metallic layers not welded together are outside the scope of this specification.

**1.3** This standard excludes fittings and connectors.

**2 REFERENCES**

The standards listed below contain provisions which through reference in this text, constitute provision of this standard. At the time of publication the editions indicated were valid. All standards are subject to revision and parties to agreements based on this standard are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below:

<i>IS No.</i>	<i>Title</i>
737 : 1986	Specification for wrought aluminium and aluminium alloy sheets and strips for general engineering purpose ( <i>third revision</i> )
2530 : 1963	Methods of test for polyethylene moulding materials and polyethylene compounds
4905 : 1968	Methods for random sampling
7328 : 1992	High density polyethylene materials for moulding and extrusion ( <i>first revision</i> )
9845 : 1998	Determination of specific and/or overall migration of constituents of plastics materials and articles intended to come into contact with foodstuffs — Method of analysis ( <i>second revision</i> )
10141 : 2001	Positive list of constituents of polyethylene in contact with foodstuffs, pharmaceuticals and drinking water ( <i>first revision</i> )
10146 : 1982	Polyethylene for its safe use in contact with foodstuff, pharmaceuticals and drinking water