INTERNATIONAL STANDARD 3514

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Chlorinated polyvinyl chloride (CPVC) pipes and fittings — Specification and determination of density

Tubes et raccords en polychlorure de vinyle chloré (PVC-C) — Spécification et détermination de la masse volumique

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FOREWORD

ISO (the International Organization for Standardization) is a worldwide federation of national standards institutes (ISO Member Bodies). The work of developing International Standards is carried out through ISO Technical Committees. Every Member Body interested in a subject for which a Technical Committee has been set up has the right to be represented on that Committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work.

Draft International Standards adopted by the Technical Committees are circulated to the Member Bodies for approval before their acceptance as International Standards by the ISO Council.

International Standard ISO 3514 was drawn up by Technical Commitee ISO/TC 138, *Plastics pipes, fittings and valves for the transport of fluids,* and circulated to the Member Bodies in June 1974.

It has been approved by the Member Bodies of the following countries :

Austria	Ireland	Sweden
Belgium	Israel	Switzerland
Czechoslovakia	Italy	Turkey
Denmark	Mexico	United Kingdom
Finland	New Zealand	U.S.A.
France	Poland	U.S.S.R.
Germany	Portugal	
India	Romania	

No Member Body expressed disapproval of the document.

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Chlorinated polyvinyl chloride (CPVC) pipes and fittings — Specification and determination of density

1 SCOPE AND FIELD OF APPLICATION

This International Standard specifies a method for the determination of the density of chlorinated polyvinyl chloride (CPVC) pipes and fittings and lays down acceptable limits for this density.

2 REFERENCE

ISO/R 1183, *Plastics — Methods for determining the density and relative density (specific gravity) of plastics, excluding cellular plastics.*

3 SPECIFICATION

The density at 23 °C of a chlorinated polyvinyl chloride (CPVC) pipe or fitting, ρ_{23}, measured by the method described in clause 5, shall be between the following limits :

$$1{,}48\ g/cm^3 \leqslant \rho_{23} \leqslant 1{,}62\ g/cm^3$$

4 TEST PIECES

Cut two test pieces from the pipe or fitting to be tested, of a shape and size conforming to the requirements of the method chosen for the density determination.

5 PROCEDURE

Condition the test pieces for at least 1 h at the test temperature.

Measure the density at 23 ± 0,1 °C, using a method which will permit an accuracy of ± 0,002 g/cm³ to be obtained : preferably one of the methods described in ISO/R 1183.

NOTE — The density determination may be carried out at another temperature, but the result thus obtained should be corrected to the reference temperature of 23 °C.

6 EXPRESSION OF RESULTS

Take the arithmetic mean of the two measured values as ρ_{23} and express it two decimal places.