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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

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International Standard ISO 3514 was drawn up by Technical Committee 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:

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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 $^{\circ}$ 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:

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

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 $^{\circ}\text{C}.$

6 EXPRESSION OF RESULTS

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