

**Plastid. Vinüülkloriidi homopolümeerid ja
kopolümeerid. Kloorisisalduse määramine**

Plastics - Vinyl chloride homopolymers and
copolymers - Determination of chlorine content

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN ISO 1158:2000 sisaldab Euroopa standardi EN ISO 1158:1998 ingliskeelset teksti. Käesolev dokument on jõustatud 11.01.2000 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes. Standard on kättesaadav Eesti standardiorganisatsioonist.	This Estonian standard EVS-EN ISO 1158:2000 consists of the English text of the European standard EN ISO 1158:1998. This document is endorsed on 11.01.2000 with the notification being published in the official publication of the Estonian national standardisation organisation. The standard is available from Estonian standardisation organisation.
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Käsitlusala: Käesolev rahvusvaheline standard määrab kindlaks kaks meetodit kloorisisalduse määramiseks vinüülkloriidi homopolümeerides ja kopolümeerides, mis ei sisalda plastifitseerivaid lisandeid, nimelt: meetod A (põletamine pommis) ja meetod B (põletamine kolvis).	Scope:
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ICS 83.080.20

Võtmesõnad: analüüs põletusmeetodil, homopolümeerid, keemiline analüüs, kloor, kopolümeerid, plastid, sisalduse määramine, termoplastsed vaigud, vinüülkloriid

ICS 83.080.20

Descriptors: Plastics, PVC, chlorine content, testing.

English version

Plastics

Vinyl chloride homopolymers and copolymers

Determination of chlorine content
(ISO 1158 : 1998)

Plastiques – Homopolymères et
copolymères de chlorure de vinyle –
Dosage du chlore (ISO 1158 : 1998)

Kunststoffe – Vinylchloridhomopoly-
mere und Copolymere – Bestimmung
des Chlorgehaltes (ISO 1158 : 1998)

This European Standard was approved by CEN on 1998-03-23.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

The European Standards exist in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, the Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, and the United Kingdom.

CEN

European Committee for Standardization
Comité Européen de Normalisation
Europäisches Komitee für Normung

Central Secretariat: rue de Stassart 36, B-1050 Brussels

Foreword

International Standard

ISO 1158 : 1998 Plastics – Vinyl chloride homopolymers and copolymers – Determination of chlorine content, which was prepared by ISO/TC 61 'Plastics' of the International Organization for Standardization, has been adopted by Technical Committee CEN/TC 249 'Plastics', the Secretariat of which is held by IBN, as a European Standard.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, and conflicting national standards withdrawn, by October 1998 at the latest.

In accordance with the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard:

Austria, Belgium, the Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, and the United Kingdom.

Endorsement notice

The text of the International Standard ISO 1158 : 1998 was approved by CEN as a European Standard without any modification.

WARNING — All precautions shall be taken, particularly those mentioned in the text of the present International Standard, to protect operators from risks presented by both methods.

1 Scope

This International Standard specifies two methods for the determination of the chlorine content of homopolymers and copolymers of vinyl chloride, free from plasticizers or additives, namely:

- method A (combustion in a bomb);
- method B (combustion in a flask).

2 Principle

A test portion is oxidised with sodium peroxide (method A) or gaseous oxygen (method B) followed by potentiometric or volumetric titration of the resulting chlorides.

3 Reagents

During the analysis, use only reagents of recognized grade, and only distilled water or water of equivalent purity.

3.1 Silver nitrate, standard volumetric solution, $c(\text{AgNO}_3) = 0,1 \text{ mol/l}$ or $0,05 \text{ mol/l}$.

3.2 Nitric acid solution, $c(\text{HNO}_3) = 2 \text{ mol/l}$.

For method A only:

3.3 Nitric acid, concentrated.

3.4 Sodium peroxide, granulated.

3.5 Starch, sucrose or ethylene glycol, as combustion aids.