

**Ferromangaan ja ferrosilikomangaan.  
Mangaanisisalduse määramine.  
Potentsiomeetriline meetod**

Ferromanganese and ferrosilicomanganese -  
Determination of manganese content -  
Potentiometric method

## EESTI STANDARDI EESSÕNA

## NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN 24159:2000 sisaldab Euroopa standardi EN 24159:1989+AC1:1989 ingliskeelset teksti.</p> <p>Käesolev dokument on jõustatud 11.01.2000 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.</p> <p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p>	<p>This Estonian standard EVS-EN 24159:2000 consists of the English text of the European standard EN 24159:1989+AC1:1989.</p> <p>This document is endorsed on 11.01.2000 with the notification being published in the official publication of the Estonian national standardisation organisation.</p> <p>The standard is available from Estonian standardisation organisation.</p>
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<p><b>Käsitlusala:</b> Standard esitab potentsiomeetrilise meetodi mangaanisisalduse määramiseks ferromangaanis ja ferrosilikomangaanis. Meetodit saab rakendada selliste sulamite korral, mis sisaldavad 55 kuni 95 massiprotsenti mangaani.</p>	<p><b>Scope:</b></p>
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ICS 77.100

**Võtmesõnad:** ferromangaan, keemiline analüüs, teras

UDC 669.15/.74-198:543.257:546.711

Descriptors: Iron and steel products, ferroalloy, ferromanganese, ferrosilicon, chemical analysis, determination of manganese content, potentiometric method.

**English version**

**Ferromanganese and ferro-silicomanganese  
Determination of manganese content**

**Potentiometric method  
(ISO 4159:1978)**

Ferro-manganèse et ferro-silico-manganèse; dosage du manganèse; méthode potentiométrique (ISO 4159:1978)

Bestimmung des Mangengehaltes von Ferromangan und Ferrosilicomangan; potentiometrisches Verfahren (ISO 4159:1978)

This European Standard was approved by CEN on 1989-05-15 and is identical to the ISO Standard as referred to.

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.

This European Standard exists 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.

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**CEN**

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

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## Foreword

On the proposal of Technical Committee TC 20, the Coordinating Commission (COCOR) of the European Committee for Iron and Steel Standardization (ECISS) decided in November 1987 to submit International Standard

ISO 4159 : 1978 Ferromanganese and ferro-silicomanganese; determination of manganese content; potentiometric method to Formal Vote.

This European Standard was approved by CEN on 1989-05-15.

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

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

## Endorsement notice

The text of International Standard ISO 4159 : 1978 was approved by CEN as a European Standard without any modification.

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