STN	Stanovenie obsahu železa v austenitických odliatkoch z nehrdzavejúcej ocele (ISO 13520: 2015)	STN EN ISO 13520
		42 1265

Determination of ferrite content in austenitic stainless steel castings (ISO 13520:2015)

Táto norma obsahuje anglickú verziu európskej normy. This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 08/19

Obsahuje: EN ISO 13520:2019, ISO 13520:2015

### EUROPEAN STANDARD NORME EUROPÉENNE EUROPÄISCHE NORM

**EN ISO 13520** 

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#### **English Version**

### Determination of ferrite content in austenitic stainless steel castings (ISO 13520:2015)

Détermination du taux de ferrite des pièces moulées en acier inoxydable austénitique (ISO 13520:2015)

Bestimmung des Ferritgehaltes in austenitischem nichtrostenden Stahlguss (ISO 13520:2015)

This European Standard was approved by CEN on 29 November 2018.

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EN ISO 13520:2019 (E)

#### **European foreword**

The text of ISO 13520:2015 has been prepared by Technical Committee ISO/TC 17 "Steel" of the International Organization for Standardization (ISO) and has been taken over as EN ISO 13520:2019 by Technical Committee CEN/TC 459 "Steel castings and forgings" the secretariat of which is held by AFNOR.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by September 2019, and conflicting national standards shall be withdrawn at the latest by September 2019.

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#### **Endorsement notice**

The text of ISO 13520:2015 has been approved by CEN as EN ISO 13520:2019 without any modification.

# INTERNATIONAL STANDARD

ISO 13520

Second edition 2015-10-01

## **Determination of ferrite content in austenitic stainless steel castings**

Détermination du taux de ferrite des pièces moulées en acier inoxydable austénitique



ISO 13520:2015(E)



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#### ISO 13520:2015(E)

#### **Foreword**

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established 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. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see <a href="www.iso.org/directives">www.iso.org/directives</a>).

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The committee responsible for this document is ISO/TC 017, TC Steel, Subcommittee SC 11, SC Steel castings.

This second edition cancels and replaces the first edition (ISO 13520:2002), which has been technically revised.

### **Determination of ferrite content in austenitic stainless steel castings**

#### 1 Scope

Procedures are covered for estimating ferrite content in certain grades of austenitic iron-chromiumnickel alloy castings that have compositions balanced to create the formation of ferrite as a second phase in amounts controlled within specified limits. Methods are described for estimating ferrite content by chemical, magnetic and metallographic means.

#### 2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 4990, Steel castings — General technical delivery requirements

ISO 9042, Steels — Manual point counting method for statistically estimating the volume fraction of a constituent with a point grid

ASTM A799, Standard Practice for Steel Castings, Stainless, Instrument Calibration, for Estimating Ferrite Content

BNIF 345, Evaluation de la teneur en ferrite dans les aciers inoxydables moulés austénitiques

koniec náhľadu – text ďalej pokračuje v platenej verzii STN