

भारतीय मानक ब्यूरो

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भारतीय मानक मसौदा

ऑस्टेनिटिक स्टेनलैस इस्पात गढ़ाइयों में फेराइट मात्रा का निर्धारण (आईएस 15839 का दूसरा पुनरीक्षण)

Draft Indian Standard

Determination of Ferrite Content in Austenitic Stainless Steel Castings (Second Revision of IS 15839)

ICS 77.140.80

Metallography and Heat-Treatment
Sectional Committee, MTD 22

Last date for receipt of comments is
21 April 2024

NATIONAL FOREWORD

(formal clause will be added later)

This standard was originally published in 2009 and subsequently revised in 2015. The second revision of this standard has been undertaken to align it with the latest version of ISO 13520 : 2023 under dual numbering system to harmonize it with the latest developments that have taken place at international level.

The changes compared to the previous edition are as follows:

- ASTM A799 and BNIF 345 were moved to the bibliography as they are not cited normatively;
- editorial revision.

The text of ISO standard has been approved as suitable for publication as an Indian Standard without deviations. Certain terminologies and conventions are, however, not identical with those used in Indian Standard. Attention is especially drawn to the following:

- Wherever the words 'International Standard' appear referring to this standard, it should be read as 'Indian Standard'.
- Comma (,) has been used as a decimal marker while in Indian Standards the current practice is to use a point (.) as the decimal marker.

In this adopted standard, reference appears to certain International Standards for which Indian Standards also exists. The corresponding Indian Standards which are to be substituted in their place are listed below along with their degree of equivalence for the edition indicated:

<i>International Standard</i>	<i>Corresponding Indian Standard</i>	<i>Degree of Equivalence</i>
ISO 9042 : 1988 Steels — Manual point counting method for statistically estimating the volume fraction of a constituent with a point grid	Doc : MTD/22/23087 Steels — Manual point counting method for statistically estimating the volume fraction of a constituent with a point grid	Identical

The technical committee responsible for the preparation of this standard has reviewed the provisions of following International Standards referred in these adopted standards and decided their acceptability for use in conjunction with this standard.

<i>International Standard</i>	<i>Title</i>
ISO 4990 : 2023	Steel castings — General technical delivery requirements

In reporting the results of a test or analysis made in accordance with this standard, is to be rounded off, it shall be done in accordance with IS 2 : 2022 'Rules for rounding off numerical-values (*second revision*)'.

The scope of the standard is as follows:

SCOPE

Procedures are covered for estimating ferrite content in certain grades of austenitic iron-chromium-nickel 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.

The complete document/text of ISO 13520 : 2023 'Determination of ferrite content in austenitic stainless steel castings' may be made available, on request to:

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