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## Guía para utilizar ASTM

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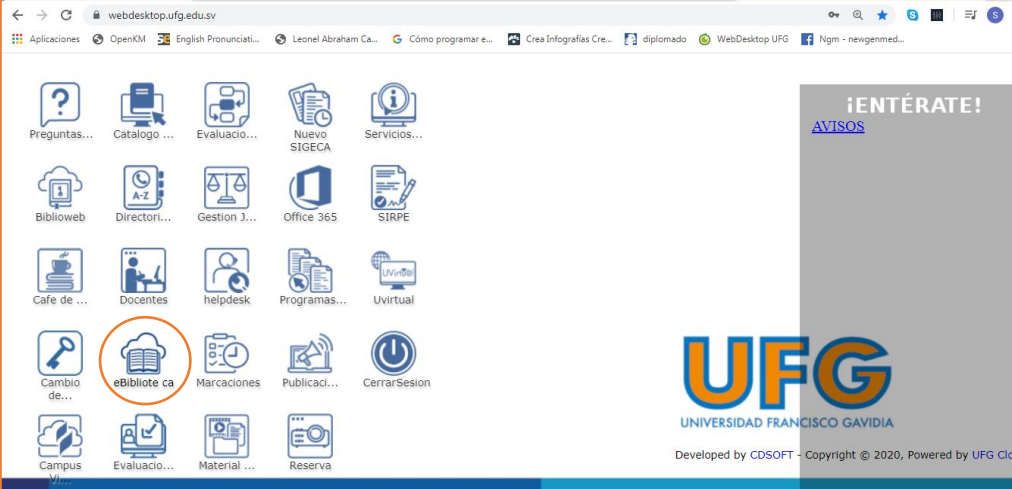
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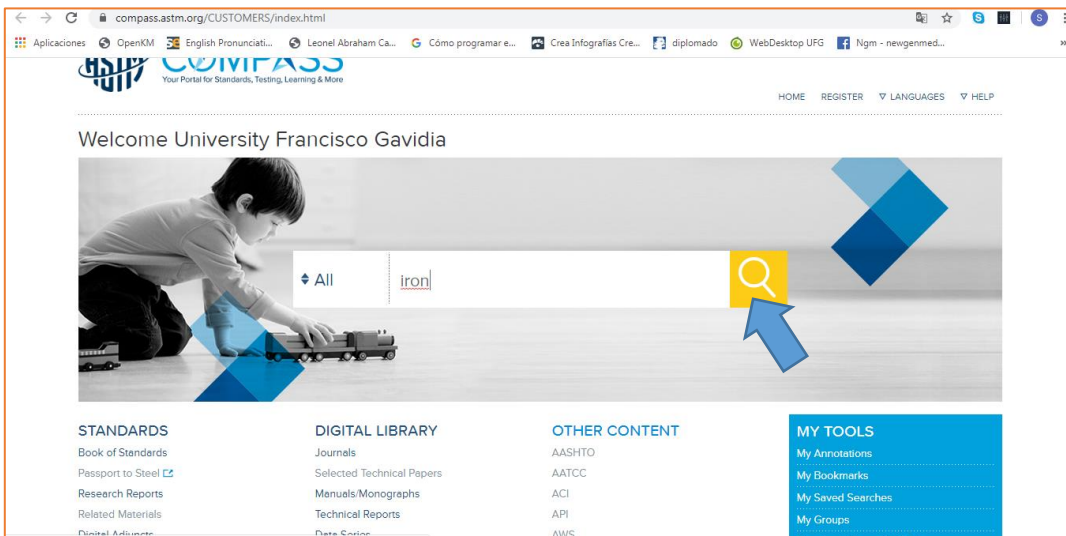
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Seleccionar “Bases de datos” Clic en el recurso ASTM y en la opción acceder



4

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ASTM E246-10(2015) Standard Test Methods for Determination of Iron in Iron Ores and Related Materials by Dichromate Titrimetry  
Active Standard (Latest Version) Last Updated August 15, 2015

1.1 Scope Previous Next Top Bottom 11 These test methods cover the determination of total iron in iron ores, concentrates, and agglomerates in the concentration range 30% to 95% iron. 1.2 The test methods in this standard are contained in the sections indicated as follows: Test Method in chemical analysis, instructions used to produce a

Versions PDF

ASTM D3872-05(2019) Standard Test Method for Ferrous Iron in Iron Oxides  
Active Standard (Latest Version) Last Updated May 24, 2019

This test method covers the quantitative determination of ferrous oxide (FeO) by oxidation of ferrous iron (Fe<sup>2+</sup>) in an acid solution to the ferric state (Fe<sup>3+</sup>) and titration with potassium dichromate using diphenylamine as the indicator.

Versions PDF

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## Desplegará el texto completo que puede leer o descargar para guardarlo en su PC o cualquier otro dispositivo

compass.astm.org/download/E246.19048.pdf

This international standard was developed in accordance with internationally recognized principles on standardization established in the Decision on Principles for the Development of International Standards, Guides and Recommendations issued by the World Trade Organization Technical Barriers to Trade (TBT) Committee.

ASTM INTERNATIONAL  
Designation: E246 – 10 (Reapproved 2015)

Standard Test Methods for Determination of Iron in Iron Ores and Related Materials by Dichromate Titrimetry<sup>1</sup>

This standard is issued under the fixed designation E246; the number immediately following the designation indicates the year of original adoption or, in the case of revisions, the year of last revision. A number in parentheses indicates the year of last approval. A superscript epsilon ( $\epsilon$ ) indicates an editorial change since the last revision or reapproval.

1. Scope

1.1 These test methods cover the determination of total iron in iron ores, concentrates, and agglomerates in the concentration range 30 % to 95 % iron.

1.2 The test methods in this standard are contained in the sections indicated as follows:

Test Method A—Iron by the Hydrogen Sulfide Reduction Dichromate Titration Method (30 % to 75 % Fe)

Test Method B—Iron by the Stannous Chloride Reduction Dichromate Titration Method (35 % to 95 % Fe)

Test Method C—Iron by the Silver Reduction Dichromate Titration Method (35 % to 95 % Fe)

1.3 The values stated in SI units are to be regarded as standard. No other units of measurement are included in this standard.

1.4 This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate

4 (4.75-mm) Sieve and Finer for Metal-Bearing Ores and Related Materials

E601 Practice for Conducting an Interlaboratory Study to Determine the Precision of a Test Method

E877 Practice for Sampling and Sample Preparation of Iron Ores and Related Materials for Determination of Chemical Composition and Physical Properties

E882 Guide for Accountability and Quality Control in the Chemical Analysis Laboratory

E1028 Test Method for Total Iron in Iron Ores and Related Materials by Dichromate Titrimetry (Withdrawn 2003)<sup>2</sup>

3. Significance and Use

3.1 The determination of the total iron content is the primary means for establishing the commercial value of iron ores used in international trade.

3.2 These test methods are intended as referee methods for the determination of iron in iron ores. It is assumed that all who use these test methods will be trained analysts capable of