INTERNATIONAL STANDARD

ISO
4552-2
First edition
1987-12-15

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION
ORGANISATION INTERNATIONALE DE NORMALISATION
МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ

Ferroalloys — Sampling and sample preparation for chemical analysis —

Part 2:
Ferrotitanium, ferromolybdenum, ferrotungsten, ferroniobium, ferrovanadium

Ferro-alliages — Échantillonnage et préparation des échantillons pour analyse chimique —

Partie 2: Ferro-titane, ferro-molybdène, ferro-tungstène, ferro-niobium, ferro-vanadium

Reference number
ISO 4552-2 : 1987 (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.

Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council. They are approved in accordance with ISO procedures requiring at least 75 % approval by the member bodies voting.

International Standard ISO 4552-2 was prepared by Technical Committee ISO/TC 132, *Ferroalloys*.

Users should note that all International Standards undergo revision from time to time and that any reference made herein to any other International Standard implies its latest edition, unless otherwise stated.

Printed in Switzerland

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1 Scope and field of application

This part of ISO 4552 specifies the methods for sampling and sample preparation for the determination of the chemical composition of a consignment of ferrotitanium, ferrotungsten, ferromolybdenum, ferroniobium or ferrovanadium.

Part 1 of ISO 4552 specifies the methods for use with ferrochromium, ferrosilicon, ferrosilicomanganese and ferromanganese.

2 References

ISO 3713, *Ferroalloys — Sampling and sample preparation — General rules.*

ISO 6467, *Ferrovanadium — Determination of vanadium — Potentiometric method.*

3 General requirements

3.1 Definitions, general requirements for sampling and sample preparation, tools and equipment

See ISO 3713.

3.2 Quality characteristics for precision requirements

The overall precision of the determination of the chemical composition of a consignment β_{SDM}, precision of sampling β_S, precision of sample preparation β_D and precision of the method of analysis β_M at the 95 % confidence level shall be specified with respect to the quality characteristics shown in table 1.

Table 1 — Quality characteristics for precision requirements

Ferroalloy	Quality characteristic, % (m/m)
Ferrotitanium	Titanium content
Ferromolybdenum	Molybdenum content
Ferrotungsten	Tungsten content
Ferroniobium	Niobium content
Ferrovanadium	Vanadium content

4 Overall precision of the determination of the chemical composition of a consignment

The methods of sampling and sample preparation specified in this part of ISO 4552 allow the determination of chemical composition of a consignment at the 95 % confidence level with the overall precision shown in table 2, depending on the mass of the consignment sampled.