
This is a preview of ISO 5447:1980. [Click here to purchase the full version from the ANSI store.](#)

International Standard



5447

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

Ferrosilicomanganese — Specification and conditions of delivery

Ferro-silico-manganèse — Spécifications et conditions de livraison

First edition — 1980-12-15

UDC 669.15'74'782-198

Ref. No. ISO 5447-1980 (E)

Descriptors : ferroalloys, ferrosilicon, materials specifications, chemical composition, delivery, quality control, grain size.

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards institutes (ISO member bodies). The work of developing International Standards is carried out through ISO technical committees. Every member body interested in a subject for which a technical committee has been set up 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.

International Standard ISO 5447 was developed by Technical Committee ISO/TC 132, *Ferrous alloys*, and was circulated to the member bodies in November 1979.

It has been approved by the member bodies of the following countries :

Australia	India	Romania
Austria	Italy	South Africa, Rep. of
Brazil	Japan	Sweden
Canada	Libyan Arab Jamahiriya	United Kingdom
China	Norway	USA
Czechoslovakia	Pakistan	USSR
France	Poland	Yugoslavia
Germany, F.R.	Portugal	

No member body expressed disapproval of the document.

Ferrosilicomanganese — Specification and conditions of delivery

1 Scope and field of application

This International Standard specifies requirements and conditions of delivery for ferrosilicomanganese usually supplied for steelmaking and foundry use.

2 References

ISO 565, *Test sieves — Woven metal wire cloth and perforated plate — Nominal sizes of apertures.*

ISO 3713, *Ferroalloys — Sampling and preparation of samples — General rules.*¹⁾

ISO 4139, *Ferrosilicon — Determination of aluminium content — Flame atomic absorption spectrometric method.*

ISO 4158, *Ferrosilicon, ferrosilicomanganese and ferrosilicochromium — Determination of silicon content — Gravimetric method.*

ISO 4159, *Ferromanganese and ferrosilicomanganese — Determination of manganese content — Potentiometric method.*

3 Definition

3.1 ferrosilicomanganese: A master alloy of iron, manganese and silicon with manganese contents in the range from 60,0 to 75,0 % by mass and silicon contents in the range from 10,0 to 35,0 % by mass, obtained by reduction.

4 Information for ordering

Orders for ferrosilicomanganese shall include the following information.

- a) Quantity.
- b) Constitution of consignment.
- c) Chemical composition in accordance with the designations given in table 1.

d) Particle size ranges in accordance with the classes given in table 2.

e) Necessary requirements for analysis reports, packing, etc., as appropriate.

5 Requirements

5.1 Constitution of consignment

Ferrosilicomanganese shall be delivered in consignments constituted by one of the following methods.

5.1.1 Tapped lot method

A consignment constituted by the tapped lot method consists of a ferrosilicomanganese mass of one melt (or one part of a continuous tap).

5.1.2 Graded lot method

A consignment constituted by the graded lot method consists of a number of melts (or parts of continuous taps) of one ferrosilicomanganese designation.

The manganese and the silicon content of the melts (or parts of continuous taps) constituting the consignment shall not differ from each other by more than 3 % absolute.

5.1.3 Blended lot method

A consignment constituted by the blended lot method consists of a number of melts (or parts of continuous taps) of one ferrosilicomanganese designation, which have been crushed to a particle size less than x mm²⁾ and thoroughly mixed.

The content of the main constituent of the melts (or parts of continuous taps) constituting the consignment may vary between the minimum and maximum limits specified for the appropriate ferrosilicomanganese designation.

1) At present at the stage of draft.

2) To be defined after further investigation.