
**Iron ores — Currently traded international
ores**

Minerais de fer — Minerais internationaux commercialisés



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 main task of technical committees is to prepare International Standards, but in exceptional circumstances a technical committee may propose the publication of a Technical Report of one of the following types:

- type 1, when the required support cannot be obtained for the publication of an International Standard, despite repeated efforts;
- type 2, when the subject is still under technical development or where for any other reason there is the future but not immediate possibility of an agreement on an International Standard;
- type 3, when a technical committee has collected data of a different kind from that which is normally published as an International Standard ("state of the art", for example).

Technical Reports of types 1 and 2 are subject to review within three years of publication, to decide whether they can be transformed into International Standards. Technical Reports of type 3 do not necessarily have to be reviewed until data they provide are considered to be no longer valid or useful.

ISO/TR 11945, which is a Technical Report of type 3, was prepared by Technical Committee ISO/TC 102, *Iron ores*, Subcommittee SC 2, *Chemical analysis*.

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International Organization for Standardization
Case postale 56 • CH-1211 Genève 20 • Switzerland
Internet central@iso.ch
X.400 c=ch; a=400net; p=iso; o=isocs; s=central

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1 Scope

This Technical Report is a revision of ISO/TC 102/TCR 3, which was prepared to provide the iron ore industry with information regarding the analysis of iron ores that are traded internationally.

It was always intended to update TCR 3 regularly to reflect changes that occur from time to time, and at the last version it was suggested that the information provided in the report was of interest beyond the scope of TC 102. Hence the status of the report has been raised to that ISO technical report, type 3.

The ore grades presented in this Technical Report are subject to change and do not necessarily reflect the analysis of the most recently available products.

2 Statistical evaluation of data

This clause is a compilation of the data presented in the analysis listed at the end of this Technical Report.

Table 1 shows a summary of the statistical evaluation of all elements as in TCR 3, the only difference being that the order of element has been made more logical. It should be noted that no data were received in respect of any ore for the elements Bi, Cl (soluble) and Sb.

The ranges of concentrations of the elements of interest shown in ISO/TC 102/TCR 4, working group operating procedures, are included in table 1 for comparative reference purposes. Data are also indicated for elements that have subsequently had their concentration ranges revised, namely Co, Sn and LOI. These revised values have been substituted for the original ones in the relevant column of table 1 and marked with an asterisk.

Tables 2 to 6, inclusive, give classified data by area relating to selected elements. Figures 1 to 9, inclusive, show histograms for selected elements.

The figures expressed in oxide forms in the listed analyses have been converted to their equivalent metallic values in all tables and figures, in accordance with the principles adopted by TC 102/SC 2.

Points to be noted are as follows:

a) Each "area" covers the following country or countries submitting data:

Africa:	Liberia, Morocco, Mauritania, South Africa
Asia:	India
Australasia:	Australia
Europe:	Norway, Sweden, U.S.S.R.
N. America:	Canada
S. America:	Brazil, Chile, Peru, Venezuela

b) Of the data in the listed analyses, the size distribution characteristics have been excluded from the calculation, as these are not considered relative to the purpose of this evaluation.