
This is a preview of ISO 4948-2:1981. [Click here to purchase the full version from the ANSI store.](#)

International Standard



4948/2

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

Steels — Classification — Part 2 : Classification of unalloyed and alloy steels according to main quality classes and main property or application characteristics

Aciers — Classification — Partie 2 : Classification des aciers alliés et aciers non alliés en fonction des principales classes de qualité et des caractéristiques principales de propriété ou d'application

First edition — 1981-09-01

UDC 629.14/.15

Ref. No. ISO 4948/2-1981 (E)

Descriptors : steels, unalloyed steels, alloy steels, classifications, chemical composition.

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 4948/2 was developed by Technical Committee ISO/TC 17, *Steel*, and was circulated to the member bodies in June 1980.

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

Australia	Hungary	Poland
Austria	India	Romania
Belgium	Iran	South Africa, Rep. of
Bulgaria	Ireland	Spain
Canada	Italy	Sweden
Chile	Japan	Turkey
China	Korea, Dem. P. Rep. of	United Kingdom
Czechoslovakia	Korea, Rep. of	USA
Egypt, Arab Rep. of	Mexico	USSR
Finland	Netherlands	Venezuela
France	New Zealand	
Germany, F.R.	Norway	

No member body expressed disapproval of the document.

Steels — Classification — Part 2 : Classification of unalloyed and alloy steels according to main quality classes and main property or application characteristics

1 Scope and field of application

This part of ISO 4948 lays down a classification of unalloyed and alloy steels according to main quality classes and main property or application characteristics.

Part 1 lays down the classification of steels into unalloyed and alloy steels based on chemical composition.

2 References

ISO 630, *Structural steels.*

ISO/R 683/1, *Heat-treated steels, alloy steels and free-cutting steels — Part 1 : Quenched and tempered unalloyed steels.*¹⁾

ISO/R 683/3, *Heat-treated steels, alloy steels and free-cutting steels — Part 3 : Wrought quenched and tempered unalloyed steels with controlled sulphur content.*¹⁾

ISO/R 683/5, *Heat-treated steels, alloy steels and free-cutting steels — Part 5 : Wrought quenched and tempered manganese steels.*¹⁾

ISO/R 683/9, *Heat-treated steels, alloy steels and free-cutting steels — Part 9 : Wrought free-cutting steels.*¹⁾

ISO/R 683/11, *Heat-treated steels, alloy steels and free-cutting steels — Part 11 : Wrought case hardening steels.*¹⁾

ISO 683/12, *Heat-treated steels, alloy steels and free-cutting steels — Part 12 : Flame and induction hardening steels.*

ISO 683/14, *Heat-treated steels, alloy steels and free-cutting steels — Part 14 : Steels for hot-formed and heat-treated springs.*

ISO 683/18, *Heat-treated steels, alloy steels and free-cutting steels — Part 18 : Wrought unalloyed steels in the normalized, or normalized and cold-drawn, or hot-rolled and cold-drawn condition.*

ISO 1052, *Steels for general engineering purposes.*²⁾

ISO/R 1111/1, *Cold-reduced tinplate and cold-reduced black-plate — Part 1 : Sheet.*¹⁾

ISO 1111/2, *Cold-reduced tinplate and cold-reduced black-plate — Part 2 : Coil for subsequent cutting into sheet.*

ISO 2604, *Steel products for pressure purposes —
Part 1 : Forgings.
Part 2 : Wrought seamless tubes.
Part 3 : Electric resistance and induction-welded tubes.
Part 4 : Plates.
Part 6 : Submerged arc longitudinally or spirally welded steel tubes.*

ISO 3183, *Oil and natural gas industries — Steel line pipe.*

ISO 3573, *Hot-rolled carbon steel sheet of commercial and drawing qualities.*

ISO 3574, *Cold-reduced carbon steel sheet of commercial and drawing qualities.*

ISO 3575, *Continuous hot-dip zinc-coated carbon steel sheet of commercial, lock-forming and drawing qualities.*

ISO 3755, *Cast steels for general engineering purposes.*

ISO 3845, *Oil and natural gas industries — High-test steel line pipe.*³⁾

ISO 4948/1, *Steels — Classification — Part 1 : Classification of steels into unalloyed and alloy steels based on chemical composition.*³⁾

ISO 4950/2, *High yield strength flat steel products — Part 2 : Products supplied in the normalized or controlled rolled condition.*

ISO 4951, *High yield strength steel sections.*

ISO 4954, *Steel for cold heading and cold extruding.*

ISO 4957, *Tool steels.*

1) Under revision.

2) At present at the stage of draft. (Revision of ISO/R 1052-1969.)

3) At present at the stage of draft.