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Interested committees:

Title: Draft BS ISO 11951 Cold-reduced tinmill products - Blackplate.

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Introduction

This draft standard is based on national and international discussions. Your comments on this draft are invited and will assist in the preparation of the consequent standard.

For international standards, comments will be reviewed by the relevant UK national committee before sending the consensus UK vote and comments to the international committee, which will then decide appropriate action. If the international standard is approved, it is usual for the text to be published as a British Standard.

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Submission of Comments

- **Annotated drafts are not acceptable and will be rejected.**
- All comments should be submitted online at <https://standardsdevelopment.bsigroup.com/>. You will need to register in order to comment.

Template for comments and secretariat observations

Date: xx/xx/20xx	Document: ISO/DIS xxxx
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1	2	(3)	4	5	(6)	7
MB	Clause No./ Subclause No./Annex (e.g. 3.1)	Paragraph/ Figure/Table/Note	Type of comment	Comment (justification for change) by the MB	Proposed change by the MB	Secretariat observations on each comment submitted
	3.1	Definition 1	ed	Definition is ambiguous and needs clarifying.	Amend to read '...so that the mains connector to which no connection...'	
	6.4	Paragraph 2	te	The use of the UV photometer as an alternative cannot be supported as serious problems have been encountered in its use in the UK.	Delete reference to UV photometer.	



DRAFT International Standard

ISO/DIS 11951

Cold-reduced tinmill products — Blackplate

Aciers pour emballage laminés à froid — Fer noir

ICS: 77.140.50

ISO/TC 17/SC 9

Secretariat: JISC

Voting begins on:
2025-03-26

Voting terminates on:
2025-06-18

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Contents

Page

Foreword	v
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 General technical delivery condition	3
5 Classification	3
6 Information to be supplied by the purchaser	4
6.1 Designation	4
6.2 Mandatory information	4
6.3 Options	5
7 Manufacturing features	5
7.1 Manufacture	5
7.2 Annealing	5
7.3 Finish	5
7.4 Oiling	6
7.5 Imperfections	6
8 Mechanical properties	6
8.1 General	6
8.2 Hardness requirement	6
8.3 Tensile property requirement	6
9 Tolerances on dimensions and shape	7
9.1 General	7
9.2 Thickness and feather edge	7
9.2.1 Coil thickness	7
9.2.2 Feather edge	7
9.3 Coil width	7
9.4 Coil length	7
9.5 Edge camber of trimmed coils	7
9.6 Flatness	8
9.6.1 Edge wave	8
9.6.2 Longitudinal and transverse bow	8
9.6.3 Centre fullness	8
10 Joint within a coil	8
10.1 General	8
10.2 Number of joints	8
10.3 Location of joints	9
10.4 Dimension of joints	9
10.4.1 Thickness	9
10.4.2 Overlap	9
11 Sampling	9
12 Test method	10
12.1 Hardness test	10
12.1.1 Test piece	10
12.1.2 Test method	10
12.2 Tensile test	11
12.2.1 Test piece	11
12.2.2 Test method	11
12.3 Flatness test	11
12.3.1 General	11
12.3.2 Edge wave	11

ISO/DIS 11951:2025(en)

12.3.3	Longitudinal or transverse bow.....	11
12.3.4	Centre fullness.....	12
13	Retests.....	13
14	Inspection document.....	14
15	Dispatch and packaging.....	14
15.1	Coil orientation.....	14
15.2	Labelling.....	14
Annex A (normative)	Hardness requirements for blackplate.....	15
Annex B (normative)	Tensile property requirements for blackplate.....	16
Annex C (informative)	Steel types.....	18
Annex D (informative)	Springback test for routine determination of $R_{p0,2}$ or R_{eL} for blackplate.....	19
Annex E (normative)	Rockwell HR15Tm values and their HR30Tm equivalents.....	20
Bibliography		21

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 procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 17, Subcommittee SC 9, *Tinplate and blackplate*.

This third edition cancels and replaces the second edition (ISO 11951:2016), which has been technically revised.

The main changes are as follows:

- Blackplate may also be used in other applications besides electrolytic tinplate and ECCS ([Clause 1](#)).
- The maximum nominal thickness for double cold-reduce tinplate is changed to 0,390 mm, instead of 0,360 mm ([Clause 1](#)).
- Several steel grades are added ([Tables A.1, A.2](#) and [B.1](#)).
- The lower yield strength, R_{eL} is specified for CA ([8.3, 12.2.2, Annex B, Annex D](#)).
- Editorial update is done.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

Cold-reduced tinmill products — Blackplate

1 Scope

This International Standard specifies requirements for single and double cold-reduced blackplate in the form of coils which are generally intended for manufacturing electrolytic tinplate or electrolytic chromium/chromium oxide-coated steel (ECCS) in accordance with ISO 11949 or ISO 11950.

Single cold-reduced blackplate is generally specified in nominal thicknesses that are multiples of 0,005 mm from 0,150 mm up to and including 0,600 mm. Double cold-reduced blackplate is generally specified in nominal thicknesses that are multiples of 0,005 mm, from 0,100 mm up to and including 0,390 mm.

This International Standard applies to coils in nominal minimum rolling widths of 600 mm¹⁾ with either trimmed or untrimmed edges.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 404, *Steel and steel products — General technical delivery requirements*

ISO 4288, *Geometrical Product Specifications (GPS) — Surface texture: Profile method — Rules and procedures for the assessment of surface texture*

ISO 6508-1, *Metallic materials — Rockwell hardness test — Part 1: Test method*

ISO 6892-1, *Metallic materials — Tensile testing — Part 1: Method of test at room temperature*

ISO 10474, *Steel and steel products — Inspection documents*

ISO 11949, *Cold-reduced tinmill products — Electrolytic tinplate*

ISO 11950, *Cold-reduced tinmill products — Electrolytic chromium/chromium oxide-coated steel*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply:

3.1 blackplate

cold-reduced low-carbon mild steel, normally oiled, for the production of electrolytic tinplate or ECCS in accordance with ISO 11949 or ISO 11950

3.2 single cold-reduced

description of product in which the blackplate has been reduced to the desired thickness in a cold-reduction mill and subsequently annealed and temper rolled

1) Nominal minimum rolling widths of 500 mm may be applied by agreement between the purchaser and the manufacturer.