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Stranded wire ropes for mine hoisting — Technical delivery requirements

Câbles d'extraction toronnés utilisés dans les mines — Conditions techniques de réception

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Reference number
ISO 3154:1988 (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. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

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 3154 was prepared by Technical Committee ISO/TC 82, *Mining*.

This second edition cancels and replaces the first edition (ISO 3154 : 1976), of which it constitutes a minor revision.

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.

Contents

	Page
1 Scope and field of application	1
2 References	1
3 Components of the rope	1
3.1 Wires	1
3.2 Fibres	1
3.3 Lubricants	1
4 Requirements	2
4.1 Requirements for the completed rope	2
4.2 Requirements for round wires from rope	3
4.3 Requirements for shaped wires from rope	5
5 Testing	5
5.1 Tests on the completed rope	5
5.2 Tests on wires from the rope	6
5.3 Independent tests	7
6 Inspection facilities	7
7 Certificates	7
7.1 General	7
7.2 Works certificate	7
7.3 Full works certificate	8
7.4 Certificate of acceptance	8
8 Packing	8
Annexes	
A Example of a works certificate for stranded wire ropes	9
B Example of a full works certificate for stranded wire ropes	10

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Stranded wire ropes for mine hoisting — Technical delivery requirements

1 Scope and field of application

This International Standard specifies those properties of stranded wire ropes for mine hoisting and of their component parts which form a basis for acceptance.

Full-lock coil ropes, balance ropes and flat ropes used in mines are not covered by this International Standard.

The characteristics of the wire to be used for the manufacture of these ropes are not covered by this International Standard.

2 References

ISO 2232, *Drawn wire for general purpose non-alloy steel wire ropes — Specifications*.¹⁾

ISO 2532, *Steel wire ropes — Vocabulary*.

ISO 3155, *Stranded wire ropes for mine hoisting — Fibre components — Characteristics and tests*.

ISO 3156, *Stranded wire ropes for mine hoisting — Impregnating compounds, lubricants and service dressings — Characteristics and tests*.

ISO 6892, *Metallic materials — Tensile testing*.

ISO 7800, *Metallic materials — Wire — Simple torsion test*.

ISO 7801, *Metallic materials — Wire — Reverse bend test*.

3 Components of the rope

3.1 Wires

Stranded wire ropes for hoisting purposes shall be made from round wires²⁾. These shall be either bright or galvanized.

The requirements for wires after manufacture are given in clause 4.

3.2 Fibres

Fibre cores, fibre covers and fibre inserts used in the manufacture of these ropes shall comply with the requirements laid down in ISO 3155.

3.3 Lubricants

The impregnating compounds and lubricants used during the manufacture of these ropes shall comply with the requirements laid down in ISO 3156.

1) Cross-reference to annex A in ISO 2232 applies to the first edition published in 1973.

2) In ropes of triangular strand or flattened strand construction, shaped wires may be used as core members.