



National Standards Authority of Ireland

IRISH STANDARD

I.S. EN 12385-7:2002

ICS 77.140.65

National Standards
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STEEL WIRE ROPES - SAFETY - PART 7: LOCKED COIL ROPES FOR MINE SHAFTS

*This Irish Standard was
published under the
authority of the National
Standards Authority of
Ireland
and comes into effect on:
December 18, 2002*

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 12385-7

October 2002

ICS 77.140.65

English version

Steel wire ropes - Safety - Part 7: Locked coil ropes for mine shafts

Câbles en acier - Sécurité - Partie 7: Câbles clos
d'extraction pour puits de mine

Drahtseile aus Stahldraht - Sicherheit - Teil 7:
Verschlossene Spiralseile für Schachtförderanlagen des
Bergbaus

This European Standard was approved by CEN on 28 March 2002.

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EN 12385-7:2002 (E)

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Foreword

This document (EN 12385-7:2002) has been prepared by Technical Committee CEN/TC 168, "Chains, ropes, webbing, slings and accessories – Safety", the secretariat of which is held by BSI.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by April 2003, and conflicting national standards shall be withdrawn at the latest by April 2003.

The other Parts of EN 12385 are:

- Part 1: General requirements
- Part 2: Definitions, designation and classification
- Part 3: Information for use and maintenance
- Part 4: Stranded ropes for general lifting applications
- Part 5: Stranded ropes for lifts
- Part 6: Stranded ropes for mine shafts
- Part 8: Stranded hauling and carrying-hauling ropes for cableway installations designed to carry persons
- Part 9: Locked coil carrying ropes for cableway installations designed to carry persons
- Part 10: Spiral ropes for general structural applications

Part 1 provides the general requirements of Parts 4 to 10.

This is the first edition of this Part.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

EN 12385-7:2002 (E)

Introduction

During the preparation of this standard, it was assumed that a negotiation would take place between the purchaser and the manufacturer concerning the intended purpose of the rope.

Specifiers, purchasers and users should recognise that locked coil ropes for mine shafts are, more often than not, specially designed by the rope manufacturer to meet particular shaft conditions and machinery requirements.

1 Scope

This Part of this European Standard specifies the particular materials, manufacturing and testing requirements for full-locked coil hoist and half-locked and full-locked coil guide ropes for mine shafts.

The particular hazards covered by this Part are identified in Clause 4.

For information only, typical breaking forces for both full-locked coil hoist ropes and half-locked and full-locked coil guide ropes, based on one particular combination of wire tensile strength grades in each case, are given in annex A (hoist ropes) and annex B (guide ropes) for some of the more common sizes.

2 Normative references

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text, and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies (including amendments).

EN 292-2:1991/A1:1995, *Safety of machinery – Basic concepts – General principles for design – Part 2: Technical principles and specifications (Amendment 1)*.

EN 1050:1996, *Safety of machinery – Principles of risk assessment*.

EN 10264-3, *Steel wire and wire products – Steel wire for ropes – Part 3: Cold drawn and cold shaped non-alloyed steel wire for heavy duty applications*.

EN 12385-1:2002, *Steel wire ropes – Safety – Part 1: General requirements*.

EN 12385-2, *Steel wire ropes – Safety – Part 2: Definitions, designation and classification*.

ISO 4346, *Steel wire ropes for general purposes – Lubricants – Basic requirements*.

DIN 21258:1986, *Preservative compounds for koepe friction drive winding ropes in mining – Safety requirements and testing*.

3 Terms and definitions

For the purposes of this European Standard, the terms and definitions in EN 12385-2 apply.

4 List of hazards

For the purposes of this Part the hazards identified in clause 4 of Part 1 apply.

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