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Steel wire ropes — Vocabulary, designation and classification

AMENDMENT 1

Câbles en acier — Vocabulaire, désignation et classification

AMENDEMENT 1

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Foreword

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Amendment 1 to ISO 17893:2004 was prepared by Technical Committee ISO/TC 105, *Steel wire ropes*.

Steel wire ropes — Vocabulary, designation and classification

AMENDMENT 1

Page 9, 2.6.1.3

Replace 2.6.1.3, including Notes 1 and 2, with the following:

2.6.1.3
rotation-resistant rope
multi-strand rope (superseded)
non-rotating rope (superseded)
stranded rope designed to generate reduced levels of torque and rotation when loaded, and categorized according to its rotational property when lifting a load equivalent to 20 % of its minimum breaking force, as follows:

— category 1 – rope constructed in such a manner that it rotates no more than 1 turn per 1 000d (i.e. displays little or no tendency to rotate or, if guided, transmits little or no torque);

— category 2 – rope constructed in such a manner that it rotates more than 1 turn but no more than 2,5 turns per 1 000d;

— category 3 – rope constructed in such a manner that it rotates more than 2,5 turns, but no more than 4 turns per 1 000d.

See Figure 12.

NOTE 1 1 turn = 360° and d = nominal rope diameter.

NOTE 2 A rotation-resistant rope generally comprises an assembly of at least two layers of strands laid helically around a wire strand or fibre centre, the direction of lay of the outer strands being opposite to that of the underlying layer; however, some three and four strand ropes in ordinary (regular) lay are intentionally designed and constructed in such a manner that they can also be described as rotation-resistant ropes and be categorized in accordance with one of those described above.

Page 34, Table 5

Replace the third sentence (note) at the foot of the table with the following:

A rope having three or four strands can be designed and constructed to have improved resistance to rotation over other single-layer ropes and, depending on its rotational property, be described as a rotation-resistant rope and categorized in accordance with 2.6.1.3.

Page 35, Table 6

Replace the sentence (note) at the foot of the table with the following:

When used for directly raising or lowering a load, a three- or four-strand rope in ordinary (regular) lay is regarded as a rotation-resistant rope, provided its rotational property is in accordance with one of the categories described in 2.6.1.3.

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