



Knots & Notes: The Standard Review

By Sarah Padilla, CI Technical Director

Updates from other standards bodies that are relevant to the cordage industry.

ISO Documents published or confirmed for a five year period since last newsletter:

- ISO 1181 - Fibre ropes- Manila and sisal – standard confirmed
- ISO 1530 – Fishing nets- Description and designation of knotting netting – standard confirmed
- ISO 1969 - Fibre ropes - Polyethylene – standard confirmed
- ISO 2307 – Fibre ropes – Determination of certain physical and mechanical properties – published in July
- ISO 9554 – Fibre ropes – General Specifications – published in July
- ISO 17920 - Fibre ropes for offshore stationkeeping - Aramid – standard confirmed
- ISO 18264 - Textile Slings - Lifting slings for general purpose lifting operations made from fibre ropes – HMPE – Standard published.
- ISO 19336 - Fibre ropes for offshore stationkeeping - Polyarylate – standard confirmed

ISO documents currently out for ballot:

- ISO 1140 - Fibre ropes - Polyamide - 3, 4, 8, and 12-strand ropes – a Committee Draft has been registered
- ISO 1141- Fibre ropes - Polyester- 3, 4, 8 and 12-strand ropes – a Committee Draft has been registered
- ISO 1346 - Fibre Ropes - Polypropylene split film, monofilament, and multifilament (PP2) and polypropylene high tenacity multifilament (PP#)-3, 4, 8, and 12- strand ropes – a Committee Draft has been registered.
- ISO 16663-1 – Fishing nets – Method of test for the determination of mesh size – Part 1: Opening of mesh – under periodic review until September 1.

ISO documents recently voted on:

- ISO 16663-2 – Fishing nets – Method of test for the determination of mesh size – Part 2 – length of mesh. Review period is closed. The US submitted some feedback via CI. A revision is planned for 2020.
- ISO 18692- 3 - Fibre ropes for offshore station keeping - Part 3: HMPE (previously ISO 14909) – full DIS draft has been circulated and approved for registration as FDIS.
- ISO 23624-Cranes- Safe Use of High Performance Fibre Ropes in Crane Applications – feedback to be reviewed during the next meeting.

ISO documents being drafted:

- ISO 1968 - Fibre ropes and cordage - Vocabulary

ASTM new work items:

- [ASTM D6413](#) - Standard test method for flame resistance of textiles - A work group from ASTM is performing an Inter-laboratory Study in order to prepare a precision and bias statement to the ASTM 6 materials, 4 replicates, 10 labs.
- [ASTM D1776](#) – Standard practice for the conditioning and testing textiles – New updates to focus on polyamid and polyester tire cords.
- [ASTM D4849](#) – Standard terminology related to yarns and fibers – will be updated to include new terms.
- [ASTM E4](#)- Standard practices for force verification of testing machines – will be reviewed to clarify no requirement is defined in E4 to guard band the allowable error by the measurement uncertainty and uncertainty according to E4 may be greater than 1.0%.
- [ASTM E162](#) - Standard Test Method for Surface Flammability of Materials using Radiant Heat Energy Source – will be updated to remove a refractory radiant panel that is no longer available to purchase.
- [ASTM F1774](#) – Standard specification for climbing and mountaineering carabiners – updates to harmonize with the standard specifications for rescue carabiners (ASTM F1956)

ASTM documents recently published:

- [ASTM D123](#)- Standard terminology relating to textiles-removed redundancies and clarified wording on a few terms.
- [ASTM D1440](#)- Standard test method for length and length distribution of cotton fibers has been confirmed for republish.
- [ASTM E2586](#) – Standard practice for calculating and using basic statistics – added new material on tolerance intervals for normal distribution.
- [ASTM F2087](#): Standard specification for packing, fiberglass, braided, rope and wick has been confirmed for republish.
- [ASTM E2058](#)- Standard test methods for measurement of material flammability using a fire propagation apparatus (FPA) – fuel/air mixtures and references were updated.
- [ASTM F2436](#) - Standard Test Method for Measuring the Performance of Synthetic Rope Rescue Belay Systems Using a Drop Test
- [ASTM D2495](#)- Standard test method for moisture in cotton by oven drying – was confirmed for republish.
- [ASTM 2752 and ASTM F2954](#)-Standard guide for training for Level I and Level II Rope Rescue Rescuer Endorsement - has an updated related documents section, reflects recent technology changes, more defined reference to Level 1 and 2 respectively, and new document title.

Additional Updates:

The National Association of Tower Erectors (NATE) used CI-2001 and other related standards documents in one of their recent Planning Advisory Notices in the Summer edition of Tower Times. [Article starts on page 46.](#)

OIPEEC is looking for submissions for the next Journal of Rope Science and Technology. Got a paper? [Submit it to them.](#)

The European Chemicals Agency has issued a call [for proposals](#) to restrict the use of microplastics. This includes fibers with lengths 3nm to 15mm and length to diameter ratio of >3. Proposals will be accepted until Sept 20.

ABS Published Standards:

[ABS 6](#)- Rules for building and classing mobile offshore drilling units – had some updates in July. Updates specify that for a mooring system with specific notations, pre-laid mooring is not part of ABS scope of certification. Handling systems of mooring components need to be certified by ABS at the manufacturing plant.