

JIS

JAPANESE INDUSTRIAL STANDARD

Nylon ropes

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In the event of any doubt arising,
the original Standard in Japanese is to be final authority.



1. Scope

This Japanese Industrial Standard specifies the nylon ropes manufactured from nylon multifilament yarns (hereafter referred to as the "ropes").

Remarks 1. The corresponding international standard to this Standard is as follows:

ISO 1140 Three-strand polyamide multifilament ropes

2. The units and numerical values given in { } in this Standard are based on the traditional units, and are appended for informative reference.

2. Quality

2.1 Appearance The ropes shall be finished well without any remarkable stain and friction mark.

2.2 Linear density and mass The linear density and the mass of the ropes shall be as specified in Attached Table 1. The tolerances thereon shall be $\pm 5\%$ for 3-strand ropes and $\pm 7\%$ for 8-strand ropes.

The increase of linear density and mass due to dyeing process or resin finishment shall be within 15 % of the linear density and the mass specified in Attached Table 1.

2.3 Length A line of the ropes shall have 200 m length, unless otherwise specified. When particularly designated, it shall have the specified length. The tolerance on minus side is not admitted.

Only when particularly specified, a margin length necessary to the tensile test (breaking test) shall be added.

2.4 Tensile strength The ropes shall prove that they have the tensile strength of the value given in Attached Table 1 or over, when subjected to the test specified in 5.7.

2.5 Elongation percentage The ropes shall show the elongation percentage not more than 45 %, when it is calculated by the formula given in 5.8.

3. Materials and manufacture

3.1 Materials The raw yarns used shall be only nylon multi-filament yarns suitable to rope use.

The remade material shall not be used.

3.2 Manufacture The ropes after being plaited shall be subjected to suitable heat treatment at a temperature 110°C or higher for the purpose of stabilizing the twist and also preventing shape deformation.

When particularly designated, they may be subjected to dyeing process or resin finishing.

3.3 Plaiting The plaiting shall be made as follows:

- (1) The ropes shall be made to a form of three strands or of eight strands, and the former form shown in Fig. 1 shall be adopted, unless otherwise specified.