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# **RULES FOR THE SURVEY AND CONSTRUCTION OF STEEL SHIPS**

**Part L**    **Equipment**

**RULES**

**2023    AMENDMENT NO.2**

Rule No.67            22 December 2023

Resolved by Technical Committee on 27 July 2023

An asterisk (\*) after the title of a requirement indicates that there is also relevant information in the corresponding Guidance.

“Rules for the survey and construction of steel ships” has been partly amended as follows:

## Part L EQUIPMENT

### Chapter 5 FIBRE ROPES

#### 5.1 Fibre Ropes

##### 5.1.7 Breaking Tests\*

Sub-paragraphs (4) to (7) have been amended as follows.

Breaking tests for fibre ropes are to be carried out in accordance with the following requirements in (1) to (7):

((1) to (3) are omitted.)

- (4) ~~Specimens for polyethylene and polypropylene ropes are to be subjected to breaking tests in as wet condition immediately after having been immersed in warm water at  $35 \pm 2^\circ\text{C}$  for more than 30 minutes. For other fibre ropes than the above ropes, specimens are to be subjected to breaking tests in as dried condition.~~ Fibre ropes are, in principle, to be subjected to breaking tests at room temperature in as dried condition and on the spliced rope. Nylon ropes are to be subjected to breaking tests at room temperature in as wet condition immediately after having been immersed in water at normal temperature for more than 30 minutes.
- (5) The load at the time of breaking is not to be less than ~~given in Table L5.1~~ the loads guaranteed by manufacturers.
- (6) Where the breaking tests carried out in accordance with the requirement in (2) fail to meet ~~the requirement given in Table L5.1~~ the load guaranteed by the manufacturer, the coil is to be rejected. Then, two further specimens taken from two coils of the remaining ropes selected at random by the Surveyor may be subjected to the breaking test specified in (3) and (4). If both of these additional tests meet the requirement, the remaining ropes may be accepted. If one or both of additional tests are unsatisfactory, the remaining ropes are, also, to be rejected.
- (7) Where the test load ~~specified in Table L5.1~~ guaranteed by manufacturers can not be applied to specimen for the lack of capacity of testing machine, any other alternative test procedure approved by the Society may be adopted.

Table L5.2 has been deleted.

~~Table L5.2 Breaking Test Loads for Fibre Ropes (kN)~~

Diameter of rope (mm)	Hemp rope <sup>(1)</sup>	Synthetic fibre rope							
		Nylon <sup>(1)</sup>		Polyethylene <sup>(2)</sup>		Polyester <sup>(1)</sup>	Polypropylene <sup>(2)</sup>		Polyamide <sup>(1)</sup>
		Grade 1	Grade 2	Grade 1	Grade 2		Grade 1	Grade 2	
10	7.06	9.32	15.7	9.71	12.7	15.6	10.8	12.7	18.1
12	9.90	13.4	21.8	13.9	17.7	22.0	15.7	17.7	27.5
14	13.1	17.9	28.4	18.6	23.5	29.2	20.6	23.5	36.6
16	16.9	22.9	36.3	23.8	29.4	37.5	26.5	29.4	46.9
18	21.0	28.6	45.1	29.7	37.3	46.7	32.4	37.3	58.3
20	25.6	34.8	54.9	36.1	44.1	56.8	39.2	44.1	70.9
22	30.5	41.6	65.7	43.1	54.9	67.8	47.1	54.9	84.6
24	35.9	48.8	77.5	50.7	63.7	79.6	54.9	63.7	100
26	41.6	56.7	89.2	58.8	73.5	92.4	63.7	73.5	116
28	47.8	65.1	103	67.5	83.4	106	73.5	83.4	132
30	54.3	74.0	117	76.8	97.1	121	83.4	97.1	151
32	61.2	83.5	131	86.5	108	136	94.1	108	170
35	72.3	99.0	155	102	127	161	111	127	201
40	95.4	127	198	131	164	206	142	164	258
45	119	157	247	163	203	260	177	203	321
50	144	191	300	198	250	312	214	250	390
55	173	228	358	237	294	373	255	294	466
60	203	269	421	279	348	438	300	348	547
65	235	312	487	324	402	508	348	402	635
70	271	358	559	371	461	583	399	461	729
75	307	407	635	422	525	663	453	525	829
80	346	459	716	476	593	747	511	593	935
85	387	514	801	533	667	837	572	667	1,050
90	431	571	895	592	735	931	635	735	1,170
95	477	632	981	655	814	1,030	702	814	1,280
100	525	694	1,080	721	897	1,140	772	897	1,410

Notes:

(1) Breaking load at room temperature in dried condition.

(2) Breaking load at room temperature after having been immersed in warm water at  $35 \pm 2^\circ\text{C}$  for more than 30 minutes.

## EFFECTIVE DATE AND APPLICATION

1. The effective date of the amendments is 1 January 2024.
2. Notwithstanding the amendments to the Rules, the current requirements apply to ships other than ships that fall under the following:
  - (1) for which the contract for construction is placed on or after the effective date; or
  - (2) in the absence of a contract for construction, the keels of which are laid or which are at a similar stage of construction on or after 1 July 2024; or
  - (3) the delivery of which is on or after 1 January 2027.
 (Note) The term “a similar stage of construction” means the stage at which the construction identifiable with a specific ship begins and the assembly of that ship has commenced comprising at least 50 tonnes or 1% of the estimated mass of all structural material, whichever is the less.