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

**Part K**

**Materials**

**RULES**

**2021 AMENDMENT NO.2**

Rule No.61      27 December 2021

Resolved by Technical Committee on 28 July 2021

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

AMENDMENT TO THE RULES FOR THE SURVEY AND CONSTRUCTION OF STEEL SHIPS

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

## **Part K MATERIALS**

### **Chapter 1 GENERAL**

#### **1.5 Marking and Test Certificate**

##### **1.5.1 Marking**

Sub-paragraph -1 has been amended as follows.

**1** Every materials complying with the requirements is to be clearly stamped with the Society's brand ~~ℳ~~ including the marks deemed appropriate by the Society ~~and material grade mark~~, and marked with the following particulars in at least one position by the maker.

(1) Material grade

(~~2~~) Name or mark to identify the maker.

(~~3~~) Number or mark to identify the piece.

(~~4~~) Condition of heat treatment (if **Chapter 3** of this Part applies, except for “as rolled” steel)

(~~5~~) Name, order number or other identification marks (if required by the purchaser)

### **Chapter 3 ROLLED STEELS**

#### **3.2 Rolled Steel Plates for Boilers**

##### **3.2.11 Marking for Accepted Steels\***

Sub-paragraph -1 has been amended as follows.

**1** Steel plates which have satisfactorily complied with the required tests are to be stamped or marked by some other appropriate method with the identification mark relating to heat treatment in addition to the requirements in **1.5.1**.

#### **3.3 Rolled Steel Plates for Pressure Vessels**

##### **3.3.11 Marking\***

Sub-paragraph -1 has been amended as follows.

**1** Steel plates which have satisfactorily complied with the required tests are to be stamped or marked by some other appropriate method with the identification mark relating to heat treatment in

addition to the requirements in **1.5.1**.

### **3.6 Round Bars for Chains**

Paragraph 3.6.12 has been amended as follows.

#### **3.6.12 Marking**

**1** Chain bars which have proved satisfactory compliance with the required tests are to be marked with identification marks in accordance with the requirements in **1.5.1**.

**2** In the case of chain bars of grades *KSBCR3*, *KSBCR3S*, *KSBCR4*, *KSBCR4S* and *KSBCR5*, the material grade is, in principle, to be stamped onto the bar. However, the material grade may be marked by some other appropriate method in cases where approved by the Society.

## **Chapter 5 CASTINGS**

### **5.1 Steel Castings**

Paragraph 5.1.12 has been amended as follows.

#### **5.1.12 Marking\***

**1** (Omitted)

**2** The grade of material and the manufacturer's name or trade mark are to be cast ~~or~~ stamped or marked by some other appropriate method on all cast steels. In addition, cast number and test number are to be stamped or marked by some other appropriate method on all cast steels greater than 250 kg in weight. The Society's brand indicating satisfactory compliance with the Rule requirements is to be stamped on all cast steels in the neighbourhood of the above mentioned marks.

### **EFFECTIVE DATE AND APPLICATION**

- 1.** The effective date of the amendments is 27 December 2021.
- 2.** Notwithstanding the amendments to the Rules, the current requirements apply to steels for which the application for survey is submitted to the Society before the effective date.

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

**Part K**

**Materials**

**GUIDANCE**

**2021 AMENDMENT NO.2**

Notice No.58      27 December 2021

Resolved by Technical Committee on 28 July 2021

AMENDMENT TO THE GUIDANCE FOR THE SURVEY AND CONSTRUCTION OF STEEL SHIPS

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

## Part K MATERIALS

### K3 ROLLED STEELS

#### K3.2 Rolled Steel Plates for Boilers

Paragraph K3.2.6 has been amended as follows.

##### K3.2.6 Selection of Test Samples

**1** Where the purchasers carry out normalizing specified in **3.2.4-2, Part K of the Rules** at their factories, test samples are to comply with the following requirements:

- (1) The manufacturer is to carry out normalizing of the test sample in accordance with purchaser instructions regarding heat treatment conditions and frequency. Where no instructions have been given by the purchaser, the manufacturer may carry out normalizing as considered preferable. In this case, the manufacturer is to inform the purchaser the conditions of normalizing which had been carried out.
- (2) The mechanical properties obtained by the test specimens specified in (1) above are to comply with the provisions in **Table K3.10, Part K of the Rules**.

**2** The marking related to the heat treatment of the steel plates specified in -1 is to be “TN” in cases where normalizing is carried out for test specimens only.

Paragraph K3.2.11 has been amended as follows.

##### K3.2.11 Marking for Accepted Steels

~~The markings related to the heat treatment of the steel plates provided in K3.2.6 are to be “TN” (showing the case where normalizing is carried out for test specimens only).~~

The wording “some other appropriate method” in 3.2.11-1, Part K of the Rules means stenciling, etc.

#### K3.3 Rolled Steel Plates for Pressure Vessels

Paragraph K3.3.6 has been amended as follows.

##### K3.3.6 Selection of Test Samples

**1** Where the purchasers carry out normalizing or quenching and tempering specified in **3.3.4-4, Part K of the Rules** at their factories, test samples are to comply with the following requirements:

- (1) The manufacturer is to carry out normalizing or quenching and tempering of the test sample in accordance with purchaser instructions regarding heat treatment conditions and frequency. Where no instructions have been given by the purchaser, the manufacturer may carry out normalizing or quenching and tempering as considered preferable. In this case, the manufacturer is to inform the purchaser the conditions of normalizing or quenching and tempering which had been carried out.
- (2) The mechanical properties obtained by the test specimens specified in (1) above are to comply

with the requirements specified in **Table K3.13, Part K of the Rules.**

2 The marking related to the heat treatments of the steel plates specified in -1 is to either be “TN” in cases where normalizing is carried out for test samples only or “TQ” in cases where quenching and tempering are carried out for test samples only.

Paragraph K3.3.11 has been amended as follows.

### **K3.3.11 Marking**

~~The markings related to the heat treatments of the steel plates specified in **K3.3.6** are to be “TN” in cases where normalizing is carried out for test samples only or “TQ” in cases where quenching and tempering are carried out for test samples only.~~

The wording “some other appropriate method” in **3.3.11-1, Part K of the Rules** means stenciling, etc.

### **K3.6 Round Bars for Chains**

Paragraph K3.6.12 has been added as follows.

#### **K3.6.12 Marking**

The wording “some other appropriate method” in **3.6.12-2, Part K of the Rules** means stenciling, etc.

## **K5 CASTINGS**

### **K5.1 Steel Castings**

Paragraph K5.1.12 has been added as follows.

#### **K5.1.12 Marking**

The wording “some other appropriate method” in **5.1.12-2, Part K of the Rules** means stenciling, etc.

### **EFFECTIVE DATE AND APPLICATION**

1. The effective date of the amendments is 27 December 2021.
2. Notwithstanding the amendments to the Guidance, the current requirements apply to steels for which the application for survey is submitted to the Society before the effective date.