

The Materials used for Chain Studs

Amended Rules and Guidance

Rules for the Survey and Construction of Steel Ships Part L

Guidance for the Survey and Construction of Steel Ships Part B and L

Guidance for the Approval and Type Approval of Materials and Equipment for Marine Use

Reason for Amendment

The requirements for the materials used for chain studs are specified in L3.1.3 of the Guidance for the Survey and Construction of Steel Ships. In cases where studs are welded to links, the weldability of the material needs to be considered. Therefore, the carbon content of such studs needs to be limited.

Accordingly, it is specified that the carbon content of the material used for studs is to be limited based on the requirements for offshore mooring chains.

Moreover, even though manufacturers have been producing studs without obtaining manufacturing process approval or conducting mechanical tests for years without any significant problems, the necessity, or lack thereof, of such approval and tests is not clear according to the Rules. Therefore, the Rules are amended to clearly specify that manufacturing process approval and mechanical tests for studs are not needed.

In addition, the terms used to describe chain accessories have been amended in order to harmonize them with ISO 1704 and the draft revision of JIS F3303.

Outline of Amendment

- (1) With respect to the materials used for the chain studs, it has been specified that the carbon content of such material is to be less than 0.25%.
- (2) With respect to the manufacturing of the materials used for chain studs, it has been specified that manufacturing process approval is not needed. In addition, the requirements for materials of studs are amended in order to harmonize the requirements for studs used for offshore mooring chains.
- (3) With respect to the materials used for chain studs, it has been specified that mechanical tests are not needed.
- (4) The term used to describe a chain connected to an anchor has been amended from “anchor shackle” to “end shackle” in order to harmonize it with ISO1704 and draft revision of JIS F3303.