

Offshore Mooring Chains

Amended Rules and Guidance

Rules for the Survey and Construction of Steel Ships Parts K and L

Guidance for the Survey and Construction of Steel Ships Parts K and L

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

Reason for Amendment

In response to industry requests for the development of requirements dealing specifically with higher strength offshore mooring chains, IACS amended the IACS Unified Rules W22 in order to add requirements related to Grade R4S and Grade R5 higher strength offshore mooring chains. In addition to adding these new requirements, IACS also amended the existing requirements related to the tests and documents to be submitted for Grade R3, Grade R3S and Grade R4 as well as grade R4S and R5 offshore mooring chains.

Accordingly, all relevant requirements has been amended in accordance with IACS Unified Requirement W22(Rev.5). However, since requirements related to the size and mechanical properties of grade R4S and grade R5 were incorporated into the NK Rules on 15 April 2009, no amendments were needed regarding these items.

Outline of Amendment

- (1) For the steels of offshore mooring chains, requirements regarding the grain size and vacuum degassing etc have been specified.
- (2) For the steels of grade R4S and grade R5 chain and accessories, it was specified that the documents regarding the material properties of each heat are to be submitted to the chain manufacturer by the steel manufacturer.
- (3) For offshore mooring chains and their accessories, requirements related to non destructive tests have been added.
- (4) For offshore mooring chains and their accessories, the requirements related to mechanical tests have been amended.
- (5) For the CTOD tests which are requested for the approval of the manufacturing process of offshore mooring chains, requirements related to test pieces and test standards have been specified.
- (6) For offshore mooring chain accessories, it was specified that CTOD tests are to be carried out for the approval of the manufacturing process of such accessories.