

Heat Treatment for Pipe Weldings

Amended Rules and Guidance

Rules for the Survey and Construction of Steel Ships Part D
Rules for the Survey and Construction of Inland Waterway Ships
Guidance for the Survey and Construction of Steel Ships Part D
Guidance for the Survey and Construction of Inland Waterway Ships

Reason for Amendment

IACS Unified Requirement (UR) P2.5(Corr.) specifies requirements related to the welding and heat treatment of the carbon steel, carbon-manganese steel, carbon-molybdenum steel, chromium-molybdenum steel and chromium-molybdenum-vanadium steel used for Group I and Group II pipes. These requirements have already been incorporated into the Rules.

However, the structure and wording of the requirements followed Society practice for its Rules, not that of the UR; thus, the correspondence between some of the requirements in the Rules to their counterparts in the UR is somewhat unclear.

Accordingly, relevant requirements were amended for clarification purposes as part of a comprehensive review of the ClassNK Rules. In addition, requirements related to the alignment of joints, minimum preheating temperatures, and the kinds and temperatures of heat treatments that are also specified in the UR were moved from the Part D of the Guidance and the Guidance for Inland Waterway Ships respectively to Part D of the Rules and the Rules for Inland Waterway Ships.

Outline of Amendment

The main contents of this amendment are as follows:

- (1) Amended the descriptions of steel materials subject to heat treatment so that they are descriptions by material composition, and adds 0.3Mo steel and 0.5Cr-0.5Mo-0.25V steel to the list of materials which can be used for pipes.
- (2) Moved requirements related to the alignment of joints, minimum preheating temperatures, and the kinds and temperatures of heat treatments from the Part D of the Guidance and the Guidance for Inland Waterway Ships respectively to Part D of the Rules and the Rules for Inland Waterway Ships.

Amended Requirements

Rules for the Survey and Construction of Steel Ships
Part D: Table D11.1, 11.6.1, 11.6.2, Table D11.6, 11.6.3, Table D11.7, 11.6.4, Table D11.8, Table D11.9, 12.4.4
Rules for the Survey and Construction of Inland Waterway Ships
Part 7: Table 7.9.1, 9.6.1, 9.6.2, Table 7.9.6, 9.6.3, Table 7.9.7, 9.6.4, Table 7.9.8, Table 7.9.9, 10.4.4
Guidance for the Survey and Construction of Steel Ships
Part D: D11.3.1, D11.6.2, D11.6.3, Table D11.6.3-1, D12.4.4, Table D12.4.4-1
Guidance for the Survey and Construction of Inland Waterway Ships
Part 7: 9.3.1, 9.6.2, 9.6.3, Table 7.9.6.3-1, 10.4.4, Table 7.10.4.4-1