

Austenitic-Ferritic Duplex Stainless Steel

Amended Rules and Guidance

Rules for the Survey and Construction of Steel Ships Part K and M
Guidance for the Survey and Construction of Steel Ships Part M

Reason for Amendment

The use austenitic-ferritic duplex stainless steels, which has the good ductility and good toughness of austenitic stainless steel and the good resistance to stress corrosion cracking of ferritic stainless steel, is expanding, and some European shipyards have adopted austenitic-ferritic duplex stainless steels for the structural materials of chemical carriers.

Accordingly, requirements related to material properties and welding consumables for austenitic-ferritic duplex stainless steels have been newly specified.

Outline of Amendment

- (1) Added requirements for the mechanical properties and chemical composition of rolled plates and pipes made of austenitic-ferritic duplex stainless steel in accordance with JIS G4304, G4305 and G3459
- (2) Added requirements for the butt weld joint tests of austenitic-ferritic duplex stainless steel
- (3) Added requirements for the welding consumables for austenitic-ferritic duplex stainless steel in accordance with JIS Z3221, Z3321 and Z3323