

# Steels Subject to Special Requirements for Ammonia Carriers

## Amended Rules and Guidance

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

## Reason for Amendment

Special requirements in Part N of the Rules for the Survey and Construction of Steel Ships related to the use of carbon manganese steels for the cargo tanks, process pressure vessels and cargo pipes of ammonia carriers state that only steels with specified minimum yield strengths not exceeding  $355 \text{ N/mm}^2$  and with actual yield strengths not exceeding  $440 \text{ N/mm}^2$  are to be used.

However, requirements about such steel materials specified in Part K of the Rules for the Survey and Construction Steel Ships do not distinguish between the above steels and steels not acceptable for use on ammonia carriers, which means there is a possibility that problems may occur in onsite handling which lead to the wrong steel being used.

Accordingly, relevant requirements were amended so as to clearly distinguish the above steels from other steels not acceptable for use on ammonia carriers.

## Outline of Amendment

- (1) Amended requirements to specify that, for the steels to which the special requirements for ammonia carriers are applicable, the specified value of the maximum yield point or proof stress may be set after obtaining the verification by the Society in advance.
- (2) Specified the symbol suffixied to the grade marks of steels to which the above (1) is applicable.
- (3) Specified requirements that steels for which the specified value of the maximum yield point or proof stress and “U” are to be suffixied to the grade mark are to be used when the special requirements for ammonia carriers apply to the steels.

## Amended Requirements

Rule for the Survey and Construction of Steel Ships  
Part K: 3.4.5, 3.4.11, 4.2.5, 4.2.9, 4.5.5, 4.5.10  
Guidance for the Survey and Construction of Steel Ships  
Part N: N17.12