

Brittle Crack Arrest Properties

Amended Rules

Rules for the Survey and Construction of Steel Ships Part K

Reason for Amendment

In 3.12, Part K of the Rules for the Survey and Construction of Steel Ships, additional requirements for brittle crack arrest properties are specified. These properties are classified into two types.

However, based on recent research regarding the application these properties to real ships, it has been found that it is necessary to provide more detailed classifications for such properties.

Therefore, in accordance with a review of the existing classifications of brittle crack arrest properties, brittle crack arrest toughness values have been amended.

Outline of Amendment

- (1) The classification A500 for brittle crack arrest properties has been added.
- (2) Brittle crack arrest toughness values for temperature gradient *ESSO* tests and double tension tests have been amended.
- (3) This amendment has specified, in cases where deemed appropriate by the Society, that a new classification division for those properties exceeding A600 may be permitted.