

RULES

FOR THE CLASSIFICATION AND CONSTRUCTION OF CHEMICAL TANKERS

PART IX

MATERIALS OF CARGO CONTAINMENT

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St. Petersburg

RULES FOR THE CLASSIFICATION AND CONSTRUCTION OF CHEMICAL TANKERS (PART XI)

The present version of Part IX "Materials of Cargo Containment" of Rules for the Classification and Construction of Chemical Tankers of Russian Maritime Register of Shipping (RS, the Register) have been approved in accordance with the established procedure and comes into force on 1 January 2024.

The present version is based on the version of 1 January 2023 and the Rules Change Notice No. 23-243120 taking into account the amendments developed immediately before publication (refer to the [Revision History](#)).

REVISION HISTORY¹

For this version, there are no amendments to be included in the Revision History.

¹ With the exception of amendments and additions introduced by Rule Change Notices (RCN), as well as of misprints and omissions.

1 GENERAL

1.1 Structural materials used for tank construction together with associated piping, pumps, valves, vents and their jointing materials shall be suitable at the temperature and pressure for the cargo to be carried in accordance with the requirements of the Register.

Steel is assumed the normal material of construction.

1.2 The following shall be taken into account in selecting the material of construction:

- .1 notch ductility at the operating temperature;
- .2 corrosive effect of the cargo;
- .3 possibility of hazardous reactions between the cargo and the material of construction; and
- .4 suitability of linings and coatings.

1.3 Linings for cargo tanks and pipings.

1.3.1 The requirement for the elasticity of a lining to be not less than the supporting boundary plating is to prevent debonding at the interface between the lining and the lined surface.

1.4 Chemical resistance of linings and coatings for transported cargoes.

1.4.1 For the purpose of fulfillment of the requirements for chemical resistance of 2.5, Part III "Cargo Containment" and [1.2.4](#) of this Part, an exhaustive list of cargoes intended to be transported (refer to Chapter 17 of the IBC Code) with which linings and coatings during direct contact are chemically resistant (Chemical resistance list) shall be submitted to the Register. Such list shall be made by the manufacturer of lining/coating at the request of the customer and shall be agreed by the parties. The list shall be submitted to the Register for information.

Russian Maritime Register of Shipping

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Part IX
Materials of Construction

FAI "Russian Maritime Register of Shipping"
8, Dvortsovaya Naberezhnaya,
191186, St. Petersburg,
Russian Federation
www.rs-class.org/en/