

RULES

FOR THE CLASSIFICATION AND CONSTRUCTION OF CHEMICAL TANKERS

PART IX MATERIALS OF CONSTRUCTION

ND No. 2-020101-182-E



**St. Petersburg
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RULES FOR THE CLASSIFICATION AND CONSTRUCTION OF CHEMICAL TANKERS

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 come into force on 1 January 2023.

The present edition of the Rules is based on the 2022 edition taking into account the amendments developed immediately before publication.

The provisions of the International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk (IBC Code) with relevant amendments thereto implemented by resolutions MSC.460(101) and MEPC.318(74) of the International Maritime Organization (IMO) have been taken into consideration in the Rules.

The Rules establish requirements, which are specific for ships carrying dangerous chemicals in bulk, and supplement the Rules for the Classification and Construction of Sea-Going Ships and Rules for the Equipment of Sea-Going Ships of Russian Maritime Register of Shipping.

The Rules are published in the following parts:

Part I "Classification";

Part II "Structure of Chemical Tanker";

Part III "Cargo Containment";

Part IV "Stability, Subdivision and Freeboard";

Part V "Fire Protection";

Part VI "Systems and Piping";

Part VII "Electrical Equipment";

Part VIII "Instrumentation";

Part IX "Materials of Construction";

Part X "Personnel Protection";

Part XI "Summary of Technical Requirements";

Part XII "Special Requirements";

The Annexes to the Rules are published separately.

REVISION HISTORY¹

(purely editorial amendments are not included in the Revision History)

Amended paras/chapters/ sections	Information on amendments	Number and date of the Circular Letter	Entry-into-force date
Para 1.3	New para with the requirements for lining for cargo tanks and piping has been introduced considering IACS UI CC6 (Apr 2011 and Rev.1 Aug 2022)	314-04-1870c of 29.11.2022	01.01.2023

¹ Amendments and additions introduced at re-publication or by new versions based on circular letters or editorial amendments.

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.

Russian Maritime Register of Shipping

Rules for the Classification and Construction of Chemical Tankers
Part IX
Materials of Construction

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