



Foam Systems PFOS/PFOA-free



New Regulatory Requirements

The IMO, through **Resolution MSC.532(107)** (adopted on 8 June 2023), prohibits the use of firefighting foams containing **perfluorooctane sulfonic acid (PFOS)** above **10 mg/kg** in fixed and portable foam fire-extinguishing systems onboard ships.

Compliance became mandatory from **1 January 2026**, at each vessel's **first scheduled survey after that date**.

The **European Union**, under **Regulation (EU) 2020/784**, has introduced significantly stricter limits covering a broader range of **per- and polyfluorinated substances (PFAS)**, including **perfluorooctanoic acid (PFOA)**.

The EU threshold is **0.025 mg/kg**, with the main replacement deadline having entered into force on **3 December 2025**. In certain transitional cases where foam concentrations are between 0.025 mg/kg and 1 mg/kg, authorities may allow an extended replacement period until 3 August 2028.

Inspections and Compliance Deadlines

Following these regulatory deadlines, **port state control authorities and national regulators are expected to intensify inspections** to verify compliance with both **IMO PFOS** and **EU PFOA** restrictions.

Foams manufactured prior to 2020 may present a higher risk of non-compliance due to PFAS content, while PFOS compliance may vary depending on foam formulation and manufacturer.

Proper **foam analysis, documentation, and timely system replacement** are essential to ensure vessels remain compliant and avoid operational delays, detentions, or penalties.

Furthermore, the disposal of any restricted substances must be carried out in accordance with environmental regulations at **authorized shore-based waste facilities**.

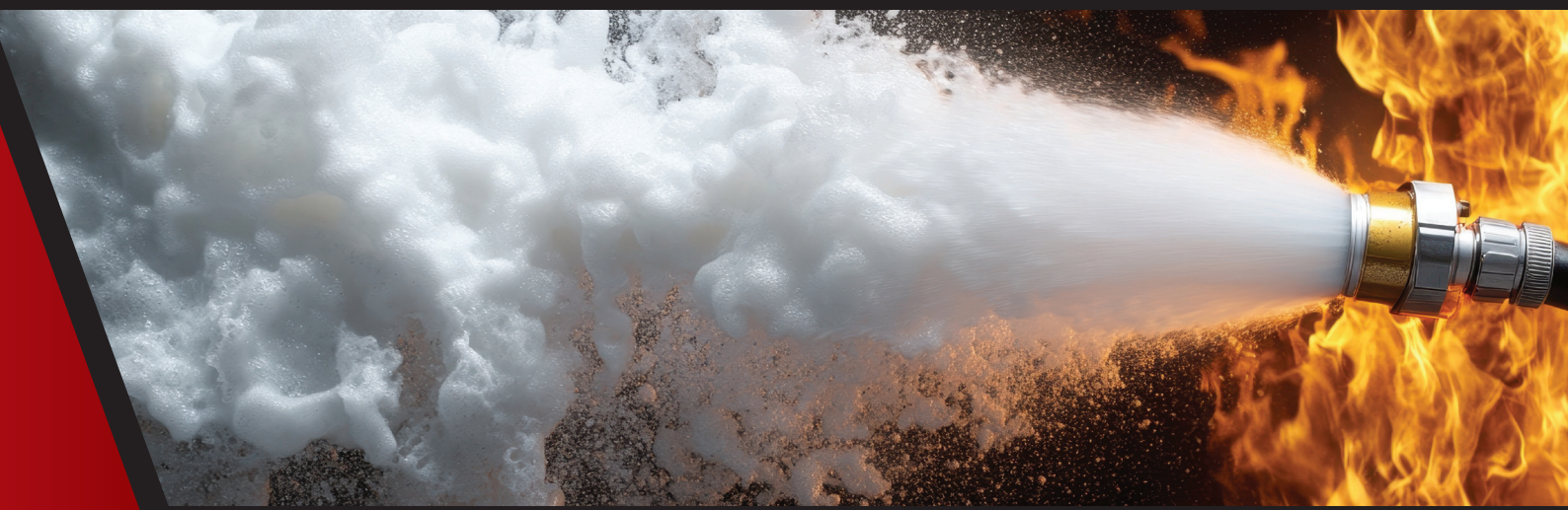
LALIZAS supports the maritime industry in navigating these regulatory requirements by offering a comprehensive compliance service package.

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LALIZAS offers a comprehensive service package to help the maritime industry navigate these regulatory changes. Our services include:

- ✓ **Foam Content Analysis:** Identify PFOS and /or PFOA presence through testing at class-approved laboratories.
- ✓ **Tank Draining:** Removal of existing foam concentrate from onboard storage tanks.
- ✓ **Certified Disposal:** Environmentally compliant disposal of PFOS and/or PFOA foam concentrates at certified facilities.
- ✓ **System Cleaning:** Flushing and cleaning of foam tanks and piping systems.
- ✓ **Rinse Water Testing:** Laboratory verification confirming the removal of PFOS and/or PFOA residues.
- ✓ **Fluorine-Free Foam Supply:** Supply of IMO-compliant fluorine-free foam concentrates.
- ✓ **Detailed Documentation:** Provision of full reporting and documentation to support regulatory compliance.



Key Project Details:

- ✓ **Completion Time:** Typically 4–10 days, depending on tank size and system configuration.
- ✓ **Recommended Locations:** Dry-dock or ship repair facilities; anchorage operations may be possible under specific conditions.
- ✓ **Global Coverage:** Services available in major commercial ports including China, UAE, Turkey, Greece and Rotterdam, with additional locations available upon request.

➤ Why Choose LALIZAS?

With an extensive global network and strong expertise in marine safety compliance, LALIZAS delivers reliable turnkey solutions for PFAS-free foam system transition. We ensure vessels meet IMO and EU regulatory requirements, minimizing operational disruption and reducing the risk of non-compliance.

- For more information, tailored proposals, or to arrange a compliance assessment, contact us at fsr@lalizas.com.