

FIRE FIGHTING FOAM TESTING

Meeting Safety, Compliance, and Regulatory Requirements

Intertek fire foam quality testing, helps to ensure clients have the correct grade of fire fighting foam in their fire control systems. Client fire foam samples are easily shipped to the foam testing laboratories, with testing usually occurring within 24 hours for rapid results.



The Challenge

Most international safety organizations require that fire foam concentrates are tested on an annual basis. Fire foam storage containers operating under harsh environmental conditions, such as ships, terminals, offshore platforms, and airports, should be routinely monitored for fire foam contamination and deterioration.

Our Solution

Intertek provides fire fighting foam laboratory services for test low, medium and high expansion foam fire-fighting products. Fire foam testing is run to EN 1568 and ISO 7203 Standard specifications.

Our Fire-fighting foam tests meet compliance for the IMO and other industrial and national quality and regulatory standards for fire fighting equipment. Fire Foam properties are tested to international methods, including ASTM, ISO, EN, etc.

Intertek fire foam testing is provided on a global basis. Shipping fire foam samples is easy to arrange, and testing results are prompt and rapid.

Types of Fire Foams:

- Protein foam concentrates (P). Liquids derived from hydrolysed protein materials.
- Fluoroprotein foam concentrates (FP). Protein concentrates with added fluorinated surface active agents.
- Synthetic foam concentrates (S). Mixtures of hydrocarbon surface-active agents, and can contain fluorinated surface-active agents with additional stabilisers.
- Alcohol resistant foam concentrates (AR). Suitable for use on hydrocarbon fuels, and are resistant to breakdown when applied to the surface of water-miscible liquid fuels. Some alcohol resistant foam concentrates precipitate a polymeric membrane on the surface of alcohol.

Testing Requirements

- IMO "Guidelines for the performance and testing criteria, and surveys of foam concentrates for fixed fire-extinguishing systems" (MSC.1/Circ. 1312-2009).
- French Ministère de l'Écologie's "ARFFS foam concentrates Common Technical Specifications" (V1R3, 5/09/2003) prepared for the National Commission for Airport Safety Equipment.

Fire foam testing includes:

Client fire foam samples are easily shipped to the foam testing laboratories, with testing usually occurring within 24 hours for rapid results.

- Appearance
- Burn Back Resistance to Polar Solvents (Small scale fire test)
- Density @ 20°C
- Drainage Time
- Expansion Ratio
- pH Value
- Sedimentation

FOR MORE INFORMATION

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