



## TECHNICAL DATA

### MATERIALS OF CONSTRUCTION FOR USE WITH VIKING FOAM

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#### 1. DESCRIPTION

Aqueous Film Forming Foams (AFFF) are formulated from special fluorochemical and hydrocarbon surfactants plus synthetic foaming agents. Viking AR-AFFF foams are AFFF's to which a special polymer and solvent system has been added. All of these foam concentrates have a pH range from 7.9 to 8.6, are not excessively corrosive and will not harm any recommended materials used to contain them.

#### 2. LISTINGS AND APPROVALS

Refer to technical data pages for products used

#### 3. TECHNICAL DATA

##### Specifications:

- A. When introducing foam concentrate into storage tanks or foam piping make sure that components are cleaned thoroughly and dry. Foam concentrates are subject to evaporation which accelerates when the product is exposed to air. Storage tanks should be sealed and fitted with a pressure vacuum vent to prevent free exchange of air. Storage tanks should be kept filled. In certain applications, contents may be covered with ¼ inch (3 mm) of National Foam Seal Oil to ensure prevention of air coming into contact with the concentrate.
- B. It is recommended that foam concentrate piping should be maintained in a flooded state.
- C. Annual foam concentrate inspection is recommended by The Viking Corporation in accordance with appropriate NFPA Standards.
- D. Please consult individual foam product data sheets for further information regarding warranty and shelf life.

##### Materials Standards:

Viking recommends and lists the following materials of construction:

##### Storage Tanks

###### Preferred Materials

- Stainless Steel – 304L or 316 grades
- High Density Cross Linked Polyethylene
- Fiberglass with isophthalic based polyester and an internal layer (50-100 mils minimum) of vinyl ester resin in contact with foam concentrate
- Carbon Steel with approved internal coating

###### Acceptable Materials

- Carbon Steel (clean, unlined)
- Aluminum with approved coating system

##### Piping/Components

###### Preferred Materials

- Stainless Steel – 304L or 316 grades
- PVC (Note: should be underground only)
- Fiberglass with isophthalic based polyester and an internal layer (50-100 mils minimum) of vinyl ester resin in contact with foam concentrate
- Brass or Bronze
- Carbon Steel (for solution only)

**Caution:** In systems containing dissimilar metals, Viking recommends that these components be insulated with dielectric components to reduce the possibility of galvanic corrosion.

**Note:** Galvanized steel storage tanks or piping should never be used to contain any foam concentrates.

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