



## TECHNICAL & SAFETY DATA SHEET

### AFP 3B 3%

#### Product Information

| Item           | Description                    |
|----------------|--------------------------------|
| Product Name   | AFP 3B 3%                      |
| Product Code   | FA-AFP3B-001                   |
| Product Type   | Fluoroprotein Foam Concentrate |
| Mixing Ratio   | 3%                             |
| Fire Class     | Class B                        |
| Suitable Fuels | Hydrocarbon & Polar Solvents   |
| Expansion      | Low & Medium Expansion         |
| Shelf Life     | 10 Years                       |
| Standard       | GHS Rev.7                      |



#### 1. PRODUCT DESCRIPTION

AFP 3B 3% is a premium quality Fluoroprotein Foam Concentrate specifically formulated for rapid extinguishment of Class B hydrocarbon fires.

The concentrate is manufactured using hydrolyzed protein, fluorochemical surfactants, polymers, corrosion inhibitors, foam stabilizers and preservatives to provide exceptional fire suppression performance.

Upon application the foam forms a stable blanket over hydrocarbon fuels while producing a polymer membrane over polar solvents to prevent foam destruction, suppress flammable vapors and resist re-ignition.

Suitable for fixed, semi-fixed and mobile firefighting systems.





**FLAME ARMOR**  
SAVING LIVES

CR No : 1009126779

VAT No : 312629152900003

## 2. FEATURES

|                                 |   |                               |   |
|---------------------------------|---|-------------------------------|---|
| Excellent Burn Back Resistance  | ✓ | Long Drain Time               | ✓ |
| Alcohol Resistant               | ✓ | Excellent Cooling Effect      | ✓ |
| Hydrocarbon Fuel Compatible     | ✓ | Freeze / Thaw Stable          | ✓ |
| Solvent Compatible              | ✓ | Long Shelf Life               | ✓ |
| Excellent Fuel Shedding         | ✓ | Compatible with Fresh Water   | ✓ |
| Strong Foam Blanket             | ✓ | Compatible with Sea Water     | ✓ |
| Suitable for Twin Agent Systems | ✓ | Low Corrosion Characteristics | ✓ |
| Biodegradable                   | ✓ |                               |   |

## 3. APPLICATIONS

**Recommended for** \_\_\_\_\_.



Refineries



Petrochemical Plants



Chemical Industries



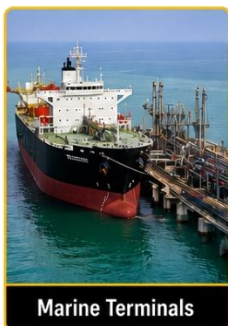
Aviation



Military Bases



Tank Farms



Marine Terminals



Offshore Platforms



Fuel Depots



Solvent Storage



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Al-Masfah District, Riyadh,  
Saudi Arabia



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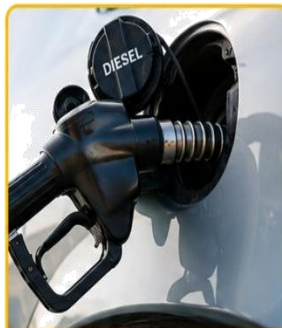
#### 4. SUITABLE FIRES



**Hydrocarbon Fuels**



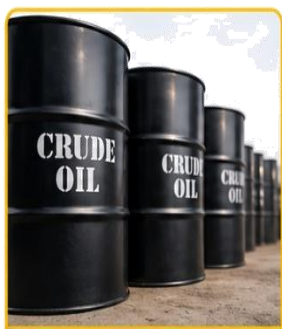
**Gasoline**



**Diesel**



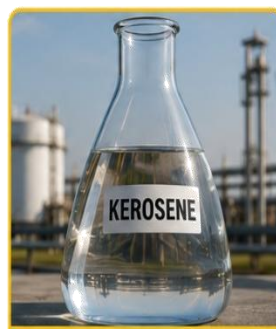
**Jet Fuel**



**Crude Oil**



**Fuel Oil**



**Kerosene**



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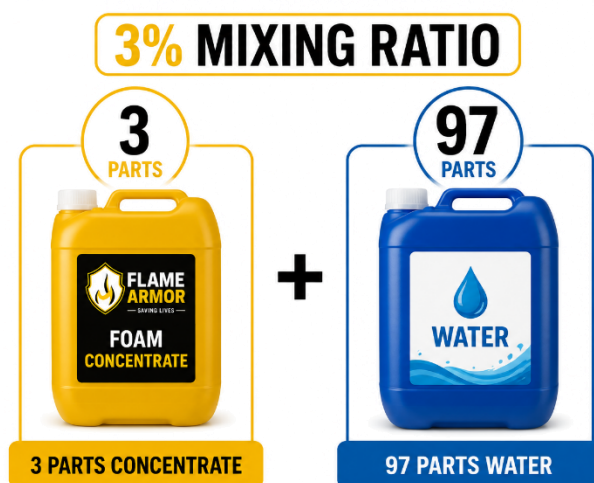
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## 5. PROPORTIONING

### Recommended Mixing Ratio



## 6. APPLICATION METHODS





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## 7. TYPICAL PHYSICAL PROPERTIES

| Property         | Typical Value     |
|------------------|-------------------|
| Appearance       | Dark Brown Liquid |
| Odor             | Characteristic    |
| pH               | 6.5–8.5           |
| Specific Gravity | 1.08–1.16         |
| Viscosity        | <30 cSt           |
| Pour Point       | <-10°C            |
| Expansion Ratio  | ≥7                |
| 25% Drain Time   | ≥240 sec          |
| Sludge Content   | <0.25%            |
| Solubility       | Complete          |

## 8. MATERIAL COMPATIBILITY



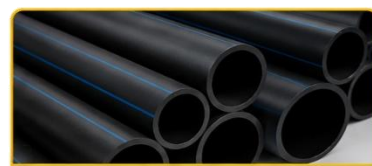
### RECOMMENDED MATERIALS



304 Stainless Steel



316 Stainless Steel



HDPE



FRP



Epoxy



Vinyl Ester



Brass



Bronze



Gun Metal



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## 9. STORAGE

|                                      |                               |
|--------------------------------------|-------------------------------|
| Storage Temperature                  | 1.7°C to 49°C                 |
| Store in original sealed containers. | Protect from direct sunlight. |
| Shelf Life                           | 10 Years                      |

## 10. PACKAGING



20 L Jerry Can



25 L Jerry Can



200 L Drum



1000 L IBC

## 11. IDENTIFICATION (SDS)

|              |                                |
|--------------|--------------------------------|
| Product Name | AFP 3B 3%                      |
| Manufacturer | FLAME ARMOR                    |
| Product Use  | Fire Fighting Foam Concentrate |

Emergency Telephone

+966590000689



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## **12. HAZARD IDENTIFICATION**

**Not classified as hazardous under GHS.**

**May cause mild eye irritation.**

**May cause mild skin irritation.**

**Spilled product creates slippery surfaces.**

## **13. COMPOSITION**

**Hydrolyzed Protein**

**Fluorochemical Surfactants**

**Alcohol Resistant Polymer**

**Foam Stabilizers**

**Corrosion Inhibitors**

**Water**

**Preservatives**

## **14. FIRST AID MEASURES**

**Eyes**

**Flush with water 15 minutes.**

**Skin**

**Wash with soap and water.**

**Inhalation**

**Fresh air.**

**Do not induce vomiting.**

**Seek medical advice.**

## **15. FIRE FIGHTING MEASURES**

**Suitable Media**

**Water**

**Foam**

**Dry Chemical**

CO<sub>2</sub>

Product is non-flammable.



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## **16. ACCIDENTAL RELEASE**

1. Contain spill.
2. Absorb with inert material.
3. Wash area thoroughly.
4. Prevent entry into drains.

## **17. HANDLING & STORAGE**

1. Wear suitable PPE.
2. Avoid prolonged contact.
3. Keep container tightly closed.

## **18. EXPOSURE CONTROLS**



**Safety Glasses**



**Gloves**



**Protective Clothing**



**Safety Shoes**

## **19. PHYSICAL & CHEMICAL DATA**

(Repeated as official SDS values)

|                  |                   |
|------------------|-------------------|
| Appearance       | Dark Brown Liquid |
| Specific Gravity | 1.08–1.16         |
| pH               | 6.5–8.5           |

Flash Point

Not Applicable



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## 20. STABILITY

- Stable under normal storage and handling conditions.
- Avoid contact with strong oxidizing agents.

## 21. TOXICOLOGY

- Low acute toxicity.
- May cause temporary eye and skin irritation upon prolonged contact.
- Inhalation of mists may cause mild respiratory irritation.

## 22. ECOLOGY

- Biodegradable under normal environmental conditions.
- Low toxicity to aquatic organisms.
- Avoid uncontrolled release into the environment.
- Prevent contamination of surface water, groundwater, and soil.

## 23. DISPOSAL CONSIDERATIONS

- Dispose of product and contaminated containers in accordance with applicable local, regional, and national regulations.
- Do not discharge into drains, watercourses, or the environment without proper treatment.

## 24. TRANSPORT

| Item                                                                                      | Status        |
|-------------------------------------------------------------------------------------------|---------------|
| UN Number                                                                                 | Not Regulated |
| IMDG (International Maritime Dangerous Goods)                                             | Not Regulated |
| IATA (International Air Transport Association)                                            | Not Regulated |
| ADR (European Agreement Concerning the International Carriage of Dangerous Goods by Road) | Not Regulated |



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## **25. REGULATORY INFORMATION**

Prepared according to

- GHS Revision 7
- OSHA HazCom
- ISO 11014

## **26. DISCLAIMER**

The information contained herein is believed to be accurate and reliable. It is provided in good faith for guidance only. FLAME ARMOR makes no warranty, expressed or implied, regarding the completeness or accuracy of the information. Users are responsible for determining product suitability for their intended applications and complying with all applicable regulations.