

# SOLBERG<sup>®</sup> AVIGARD™

# ICAO LEVEL "B" CERTIFIED FLUORINE-FREE FOAM CONCENTRATES



# **FAST FACTS**

- Breakthrough flourine-free formulation for the aviation market
- Fresh & salt water compatible
- No PBT profile
- Newtonian (low viscosity) flow characteristics
- Fast knockdown & extinguishing performance
- Excellent burnback and vapour suppression performance
- Environmentally responsible and readily biodegradable
- Lower disposal costs
- Compatible with ARFF equipment

# **APPLICATIONS**

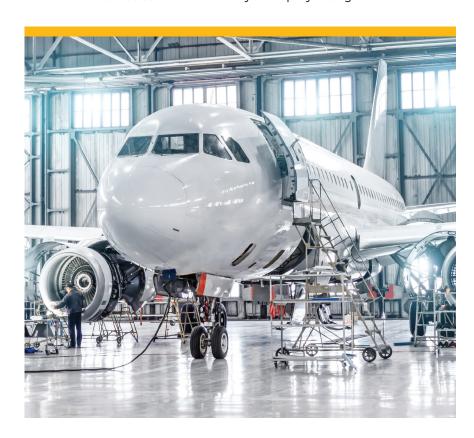
The SOLBERG AVIGARD line features a special formulation designed to meet or exceed ICAO regulations with excellent performance on Jet A/Jet AI fuel – with high fluidity and slow drainage. They may be used with low expansion foam equipment (nozzles and monitors) and medium expansion foam devices to fight fires involving Class B hydrocarbon fuel fires.

#### **USAGE RATE**

The proportioning rate is either 3% or 6%. SOLBERG AVIGARD 3B is also certified for sea water.

#### **DESCRIPTION**

SOLBERG® AVIGARD™ Fluorine-Free Foam Concentrates are a state-of-the-art fluorine-free, low viscosity aviation foam technology designed for extinguishing and securing flammable aviation fuel spills and fires (Jet A and Jet AI). A special combination of hydrocarbon surfactants and additives delivers excellent foaming, extinguishment and burnback properties to firefighting foams using either fresh water or sea water. SOLBERG AVIGARD foam concentrates contain no added PFAS chemicals and can be considered as readily and rapidly biodegradable.



# **SPECIFICATIONS**

TYPICAL PROPERTIES	3B	6B
Specific gravity @ 20°C	1.09 ± 0.02	1.050 ± 0.02
рН @ 20°C	7.5 ± 0.5	7.5 ± 0.5
Viscosity, mPa.s @ 20°C @ 0°C	< 30 45	< 10 20
Freezing point, °C	-8°C	-3°C
Lowest temperature for use, °C	-5°C	0°C

FOAM PROPERTIES	3B	6B
Dilution rate	3%	<b>6</b> %
Surface tens. at 20°C, mN/m (Demineralised water)	<25	<25
Low expansion foam (UNI-86) Foam expansion index 25% Drainage time, mins	>8.0 >3:00	>8.0 >3:00

#### **FLUORINE-FREE FOAM CONCENTRATES**

#### **PACKAGING**

Pail	20 L / 5 Gal	
Drum	200 L / 55 Gal	
IBC	1000 L / 265 Gal	

#### **STORAGE**

The concentrate should be stored preferably in the original containers or in stainless steel or epoxy lined tanks. Avoid permanent contact with carbon steel, iron, copper alloys, or aluminum. Do not mix with other foam concentrates without a previous verification of compatibility. When stored in original containers or in manufacturer recommended equipment and within specified temperature range, the shelf life of the product is rated to exceed 20 years.

#### **ENVIRONMENTAL**

SOLBERG AVIGARD products contain no fluorosurfactants, fluoropolymers, organohalogens, PFCAs, PFOA and no PFOS in accordance with EU Directive 2006/122/EC and amended by Council Directive 76/769/EEC. They present no concern for persistence, bioaccumulation or toxic breakdown (PBTs).

#### **CAUTIONS**

It is recommended to avoid the contact of the foam concentrate with the skin. In case of eye splashes, wash with plenty of water. In case of ingestion do not induce vomiting, drink water and seek medical advice.

#### **PERFORMANCE**

SOLBERG AVIGARD has approval certification according to International Civil Aviation Organization (ICAO) Airport Service Manual (DOC 9137-AN/898) Part 1 - Rescue and Firefighting, Level B.

SOLBERG AVIGARD 3B				
Standard	ICAO B Standard	Fresh Water	Sea Water	
Fuel		Jet Al	Jet Al	
Application		Forceful	Forceful	
Dilution rate, %		3	3	
Extinguishment time, mins.	< 2:00	1:05	0:48	
Burnback time, mins.	> 5:00	9:05	6:10	

SOLBERG AVIGARD 6B			
Standard	ICAO B Standard	Fresh Water	
Fuel		Jet Al	
Application		Forceful	
Dilution rate, %		6	
Extinguishment time, mins.	< 2:00	1.23	
Burnback time, mins.	> 5:00	7:45	



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#### FOR MORE INFORMATION

Contact any of our worldwide Perimeter Solutions Fire Safety offices or visit:

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