

# SOLBERG® AVIGARD™ 3C

ICAO LEVEL "C" CERTIFIED  
**FLUORINE-FREE  
FOAM CONCENTRATE**



## FAST FACTS

- Breakthrough fluorine-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

## DESCRIPTION

**SOLBERG® AVIGARD™ 3C Fluorine-Free Foam Concentrate** is 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 A1). This 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 3C contains no added PFAS chemicals and can be considered readily and rapidly biodegradable.



## APPLICATIONS

SOLBERG AVIGARD 3C is a special formulation designed to meet or exceed ICAO regulations with excellent performance on Jet A/Jet A1 fuel – with high fluidity and slow drainage. It 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 3% (3 parts foam concentrate, 97 parts water).

## SPECIFICATIONS

TYPICAL PROPERTIES	
Specific gravity @ 20°C	1.07 ± 0.02
pH @ 20°C	7.5 ± 0.5
Viscosity, mPa.s	@ 20°C < 30 @ 0°C 60
Freezing point, °C	-12°C
Lowest temperature for use, °C	-10°C

FOAM PROPERTIES	
Dilution rate	3%
Surface tens. at 20°C, mN/m (Demineralised water)	<25
Low expansion foam (UNI-86) Foam expansion index 25% Drainage time, mins	>8.0 >2:30

**PACKAGING**

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

**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 3C contains no fluorosurfactants, fluropolymers, organohalogens, PFCAs, PFOA and no PFOS in accordance with EU Directive 2006/122/EC and amended by Council Directive 76/769/EEC. It presents no concerns for persistence, bioaccumulation or toxic breakdown (PBTs).

**PERFORMANCE**

SOLBERG AVIGARD 3C has approval certification in accordance with International Civil Aviation Organization (ICAO) Airport Service Manual (DOC 9137-AN/898) Part 1 - Rescue and Firefighting, Level C.

<b>Standard</b>	<b>ICAO C Standard</b>	<b>Fresh Water</b>
<b>Fuel</b>		<b>Jet A1</b>
<b>Application</b>		<b>Forceful</b>
<b>Dilution rate, %</b>		<b>3</b>
<b>Extinguishment time, mins.</b>	<b>&lt; 2:00</b>	<b>1:35</b>
<b>Burnback time, mins.</b>	<b>&gt; 5:00</b>	<b>6:28</b>



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**FOR MORE INFORMATION**

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