



# Solberg Asia Pacific Pty Ltd

## Technical Information

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### Solberg Rehealing Foam™ RF6



#### 6% Class B Fire Fighting Foam Concentrate

##### Description

Solberg Rehealing Foam™ RF6™ is a flammable liquid fire fighting foam achieving International accreditation with excellent performance. Solberg RF6 is a versatile foam concentrate which has been developed for use in a wide range of fire protection applications specific to Class B flammable and combustible liquid fuels and Class A wetting agent applications.

Solberg RF6 is a multipurpose synthetic fire fighting foam designed for a broad range of applications through conventional fire protection equipment and systems using fresh, sea and or brackish waters. RF6 delivers rapid-fire extinguishment of hydrocarbon fuels and partially water-soluble flammable liquids such as blended gasohols. Solberg Rehealing Foam™ technology represents an inherent resilience to burn back while providing sustainable longevity of flammable, toxic or noxious vapor suppression and homogeneous stability with excellent drain time.

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##### Typical Physicochemical Properties

( Not for specification purposes)

Appearance:	Clear to straw coloured viscous liquid
Nominal use concentration:	6% - Hydrocarbons 6% - Gasohols (< 20% Alcohol Blend)
Specific Gravity @ 20°C:	1.06 g/ml
Viscosity (Kinematics) @ 20°C:	approx. 1600 cps*
Surface Tension (3% solution)	< 30 mN/m
Storage Temperature:	1.7° - 49°C
Freeze Point:	- 19°C
pH @ 20°C:	7.0 - 8.5

\*Brookfield Viscometer Spindle #4, Speed 30 RPM

##### Applications

Solberg RF6 is recommended for use in fixed systems and with a wide variety of conventional and specialized fire fighting and vapor suppression foam proportioning and delivery devices. Examples of conventional proportioning and delivery equipment are listed yet not limited to the following.

Proportioning Systems:	Inline venturi eductors, balanced pressure proportioning, round the pump, through the pump, bladder tank ratio controllers, self educting delivery devices and pre-mix solution.
Delivery Equipment:	Non-aspirating and aspirating foam nozzles and branches, self-educting foam nozzles, high volume delivery monitors, dual agent applicators and foam sprinkler systems.
Fixed Systems:	Aircraft hangar floor pop-up and over head foam systems, bladder tank, atmospheric in-line balanced pressure, foam chambers/foam pourers, semi-subsurface devices, medium expansion foam generators and fixed foam making deliveries. This includes all NFPA 11 Type I, II and III application devices.



## Performance Standards

### Certified for Aviation Rescue Fire Fighting (DNV Certificate)

- Solberg RF6 provides outstanding fire fighting performance for combustible and volatile flammables such as aviation fuels Avtur (Jet A1) and Avgas.
- RF next generation Class B flammable liquid fire fighting foam has received Aviation's highest performance certification of (ICAO Level – B) issued by DNV to the International Civil Aviation Organisation Standards.

### ICAO level B – Standard - test witnessed by DNV (Det Norske Veritas)

	Criteria Level	RF6 Performance
Solution Strength:	3% or 5%	5%
Application Rate*:	2.5-lt sq./m	2.5-lt sq./m (0.06-gal sq./ft)
Hydrocarbon Fuel:	Avtur (Jet A1)	Avtur (Jet A1)
Minimum Foam Expansion:	6:01	8.9:1
90% Control Time:	Optional	30 sec
Minimum Extinguishment Time:	< 60 sec	46 sec
Minimum Burn Back Time:	> 5:00 min	> 8:00 min
Minimum 25% Drain Time:	> 5:00 min	24 min 18 sec

\*Application rate of 2.5-lt sq./m is equivalent to 0.06-gal sq./ft

## Features

- Solberg Rehealing Foam™ RF6 is a high performance foam that has AFFF-like performance with excellent extinguishment time and burn back properties over traditional foam concentrates.
- Sustained burn-back survivability and long drain time properties equivalent to or greater than performance of traditional foam concentrates.
- Use with conventional fixed installation, portable fire protection systems and fire fighting proportioning and delivery equipment. RF6 can be used with fresh, sea and brackish water.
- Dry chemical compatible when used with listed water-insoluble dry chemical powders.
- A stable concentrate ingredient based of raw materials with no protein component providing a minimum of 10 years shelf life.
- Quality assured to ISO-9000 international manufacturing standards.

## Storage

Solberg RF6 shelf life is expected to be **10 years** (minimum) when stored in suitable manufacturer's recommended containers. Storage of premixes is not recommended for periods in excess of 12 months. Annual inspection of fire protection systems and foam concentrate as prescribed in NFPA-11 along with NFPA-25 and AS1940 are recommended as good practice. No foam concentrate should be mixed in storage with other agents. Freezing and thawing have no effect on performance and the concentrate proportions satisfactorily in ordinary equipment at temperatures above 0°C.



## Packaging

Solberg RF6 is available in standard 20 litre pails, 200 litre drums and 1,000 litre fork lift totes. Bulk container delivery is available upon request.

## Dry Chemical Powder Compatibility

RF6 is fully compatible for simultaneous or concurrent use with aviation and industrial performance "Potassium bicarbonate urea complex" and "Siliconised potassium bicarbonate" water in-soluble Class B:C dry chemical powders.

RF6 not only provides dry chemical survivability, the finished foam blanket is fully resilient to the dry chemicals listed and retains fluid stability for lasting vapor suppression longevity.

High performance Aviation and Industrial water in-soluble dry chemical powder types recommended for use with RF6 are as listed.

DCP Products	Active Ingredient
Monnex	Potassium Bicarbonate – Urea complex
Purple-K	Siliconised Potassium Bicarbonate
PKW Purple-K	Siliconised Potassium Bicarbonate Pigment Enhanced

## Warranty and Limited Remedy

Solberg Asia Pacific Pty Ltd warrants that Solberg Products will conform to Solberg specifications for Products at the time of shipment to Buyer. Solberg MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR IMPLIED WARRANTY ARISING OUT OF A COURSE OF DEALING, CUSTOM, OR USAGE OF TRADE. If a Solberg Product is found not to conform to this warranty, BUYERS EXCLUSIVE REMEDY, AT SOLBERG'S OPTION, SHALL BE REFUND THE PURCHASE (PRICE OF OR REPLACE THE QUANTITY OF SOLBERG PRODUCT SHOWN TO BE NONCONFORMING. SOLBERG has no obligation under this warranty with respect to Product that has been modified or damaged through misuse, abuse, accident, neglect, or mishandling by Buyer. For other terms and conditions of sale, see General Terms and Conditions of Sale Applicable to Orders for Commercial products of the Solberg group of companies.

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Effective October 2007