

SOLBERG® DEFENDER 1919

CLASS A FOAM CONCENTRATE (0.1-1.0%)



DESCRIPTION

SOLBERG® DEFENDER 1919 is a synthetic, readily biodegradable, Class A firefighting foam concentrate and wetting agent. It is specially formulated to provide a cost-effective solution for municipal, industrial, and wildland firefighters for use on structural, wildland-urban interface, and Class A fuel fires.

When used as a wetting agent, SOLBERG DEFENDER 1919 reduces the surface tension of water, improving its wetting and penetration capabilities. The generated foam adheres effectively to surfaces, providing rapid cooling and extinguishment, while the drained foam solution penetrates deep-seated Class A materials. This provides faster penetration and improved fire control compared with water alone.

SOLBERG DEFENDER 1919 is intended for use as a Class A foam concentrate and wetting agent and can be proportioned at concentrations ranging from 0.1% to 1.0% using fresh water.

APPLICATIONS

SOLBERG® DEFENDER 1919 Class A foam concentrate is designed to be applied to Class A fires, including wood, paper, coal, rubber, tires, wildland, and structural fires. SOLBERG DEFENDER 1919 is compatible with conventional firefighting equipment, including in-line eductors, self-inducting nozzles, low-expansion air-aspirating and non-air-aspirating nozzles, monitors, compressed-air foam systems (CAFS), and on-board proportioning systems.

APPLICATION RATES

Wetting Agent: 0.1%-1.0%

Wetting agent, mop-up and overhaul.

Wildland / Class A - Initial Suppression: 0.5%-1.0% Wildland and general Class A fire suppression.

Structural Protection / Class A -

Deep-Seated Fires: 1.0% Structural exposure protection and deep-seated Class A fires.



TYPICAL PHYSICAL PROPERTIES

Specific Gravity @ 68°F (20°C)	1.005 – 1.02
pH	7.5 ± 0.5
Viscosity (LV-1 Spindle @ 60 RPM)*	2 – 10 cP
Refractive Index	1.3500 – 1.3600
Surface Tension - 0.1% - 1.0%**	27.4 ± 0.25 mN/m
Lowest Temperature for Use	35°F (1.7°C)
Freezing Point	28.4°F (-2°C)

*Brookfield LVT @ 20°C

**Du Noüy ring method - Wetting agent test of foam solution at concentrations from 0.1% to 1.0%

INSPECTION

SOLBERG® DEFENDER 1919, or a premix solution, should be tested annually per National Fire Protection Association (NFPA 11). A sample of the foam concentrate should be sent to the manufacturer or qualified third-party lab to confirm physical properties and foam quality meet the specifications of the foam as originally supplied as per the requirements of NFPA 11.

PACKAGING

ORDERING INFORMATION			
SOLBERG DEFENDER 1919	lb*	kg*	Part #
5 Gallon Pail (19 litres)	43	19	20946
55 Gallon Drum (208 litres)	468	212	20947
265 Gallon Tote (1003 litres)	2,255	1,023	20948

* Approximate shipping weight

Contact your local authorized SOLBERG distributor or factory sales representative for additional details: perimeter-solutions.com

STORAGE/MATERIAL COMPATIBILITY

SOLBERG® DEFENDER 1919 foam concentrate should be stored between 0°C and +50°C, preferably in the original containers. It is compatible with multiple materials of construction found in firefighting equipment. For questions about material of construction compatibility, consult Perimeter Solutions technical services.

The shelf life of any foam concentrate is maximized by proper storage conditions and maintenance. Factors affecting shelf life are wide temperature fluctuation, evaporation, dilution, and contamination by foreign materials. When stored in original containers or in manufacturer-recommended equipment and within the specified temperature range, SOLBERG foam concentrates have demonstrated effective firefighting performance for 10 years or greater.

SOLBERG-manufactured products are thoroughly inspected and undergo rigorous quality control tests. These evaluations analyze the foam's physical parameters as well as the finished product's fire performance. A Certificate of Analysis (CoA) is issued with every batch.

ENVIRONMENTAL

SOLBERG® DEFENDER 1919 is siloxane-free and contains no intentionally added PFAS, fluorosurfactants, fluoropolymers, organohalogens, PFCAs, PFOA, or PFOS. Presents no concern for persistence, bioaccumulation, or toxic breakdown (No PBT profile).

⚠ CAUTIONS

Foams should not be used in contact with electrical equipment or with chemical products that can react with water. It is recommended to avoid contact of the foam concentrate with 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.

Contains no intentionally added PFAS.

FOR MORE INFORMATION

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

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