

FOAM SEAL OIL

NFC950

- Serves As A Sealing Barrier Between Foam Concentrate And Air
- Reduces The Effects Of Evaporation And Concentrate Deterioration



Description

Foam Seal Oil serves as a sealing barrier between foam concentrate and air and reduces the effects of evaporation and deterioration of foam concentrate in storage. To maximize shelf life of foam concentrate stored in atmospheric tanks, National Foam recommends addition of Foam Seal Oil immediately after the concentrate is placed in the tank. Some exceptions do apply to the use of Foam Seal Oil; consult Product Data Sheet of individual foam concentrates for correct recommendations to minimize air exposure and evaporative effects.

A depth of approximately ¼-inch (6.35 mm) of Foam Seal Oil is required to provide an adequate seal.

Foam Seal Oil application is not recommended for apparatus concentrate tanks or tanks subjected to excessive vibration or agitation. These types of tanks should be kept as full as possible to minimize evaporation. It is not recommended to apply Foam Seal Oil to concentrate stored in original factory containers. Refer to NFTB240 Foam Concentrate Storage

and Preservation Procedure for further storage recommendations.

Foam Seal Oil is a technical or USP grade white mineral oil having a viscosity between 200 – 500 SSU (44 – 110 cSt at 100oF (38°C).

Typical Physical Properties

Appearance.....Colorless
Specific Gravity at 60°F(15°C).....0.87
Min Usable Temperature35°F(2°C)
Max Usable Temperature.....120°F(49°C)

Storage and Handling

Foam Seal Oil is ideally stored in its original shipping container below 104°F (40°C). Store away from sources of heat or ignition. Use or store with adequate ventilation. Avoid acids and oxidizers such as liquid chlorine and oxygen. Store out of direct sunlight and away from heat, sparks, flames and pilot lights.

Foam Seal Oil Calculations

Vertical Tanks (Circular Surface Areas)

Units (Gallons/Inches):

$3.14 \times (\text{diameter} \div 2)^2 \times .25 \text{ in. thick layer} \times 0.004 \text{ gal/in}^3 = \dots\dots\dots \text{Gallon(s)}$

Units (Liters/Millimeters):

$3.14 \times (\text{diameter} \div 2)^2 \times 6.35 \text{ mm thick layer} \times 0.000001 \text{ liter/mm}^3 = \dots\dots\dots \text{Liter(s)}$

Horizontal Tanks (Rectangular or Square Surface Areas)

Units (Gallons/Inches):

$L \times W \times .25 \text{ in. thick layer} \times 0.004 \text{ gal/in}^3 = \dots\dots\dots \text{Gallon(s)}$

Units (Liters/Millimeters):

$L \times W \times 6.35 \text{ mm thick layer} \times 0.000001 \text{ liter/mm}^3 = \dots\dots\dots \text{Liter(s)}$

ORDERING INFORMATION

CONTAINER	SHIPPING WEIGHT	PART NUMBER
1-Gallon Can (3.79 liters)	9 lb. (4.1 kg)	1140-0101-6
5-Gallon Pail (18.93 liters)	39 lb. (17.7 kg)	1140-1340-6

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NF Poly Tank Details				Amount Seal Oil Required
Capacity	Diameter (in)	Exposed Surface Area (Ft ²)	Exposed Surface Area (M ²)	Protein, FP, AFFF & AR-AFFF Foams Gal. (Liters)
55	23	2.88	0.27	1 (4)
65	23	2.88	0.27	1 (4)
100	23	2.88	0.27	1 (4)
150	31	5.24	0.49	1 (4)
200	31	5.24	0.49	1 (4)
300	46	11.54	1.07	2 (8)
550	48	12.56	1.17	2 (8)
800	48	12.56	1.17	2 (8)
900	64	22.33	2.07	4 (15)
1150	64	22.33	2.07	4 (15)
1400	64	22.33	2.07	4 (15)
1900	86	40.32	3.75	7 (26)
2250	96	50.24	4.67	8 (30)
2400	86	40.32	3.75	7 (26)
2600	96	50.24	4.67	8 (30)
2750	96	50.24	4.67	8 (30)
3800	94	48.17	4.47	8 (30)
4000	143	111.48	10.36	18 (68)
4900	105	60.10	5.58	10 (38)
5200	110	65.96	6.13	11 (42)
5350	96	50.24	4.67	8 (30)
5900	120	78.50	7.29	13 (49)
6250	105	60.10	5.58	10 (38)
8100	143	111.48	10.36	18 (68)
10100	143	111.48	10.36	18 (68)
11900	143	111.48	10.36	18 (68)