



HydroAttack

Class "A" Wetting Agent
Concentrate

NFC650

- ✔ Designed for Municipal firefighters battling structural and wildland fires
- ✔ Stable premix in potable water for 30 days
- ✔ Compatible with most Class A foam discharge equipment
- ✔ 100% Biodegradable
- ✔ Formulated without the intentional addition of PFAS, PFOA, fluorosurfactants, fluoropolymers or organohalogens



HydroAttack Class A Wetting Agent improves the penetrating properties of water for enhanced firefighting capability. It reduces the surface tension of water, helping it to soak into surfaces and reach deep-seated fires where plain water might normally run off. It improves the water's adherence to vertical surfaces which can help cool the fuel source. These enhancements can reduce the amount of water and time required for knockdown and extinguishment of a Class A fire.

HydroAttack concentrate is intended for use as a wetting agent in a 0.1% to 1% freshwater solution (0.1 to 1 part concentrate in 99 parts of water). Dilution in salt or brackish water is not recommended. The concentrate may be proportioned with most conventional, calibrated industry proportioners.

Applications

- Structural
- Wildlands
- Tires
- Mines

Typical Physical Properties

Appearance..... Clear Liquid
Specific Gravity at 77°F(25°C)..... 1.02
pH..... 7.3
Viscosity @ 77°F (25°C) 1.0 cST
Min Usable Temperature..... 35°F(2°C)

Compatibility

HydroAttack concentrate should not be mixed with any other type of firefighting concentrate. Such mixing could lead to chemical changes in the product and a possible reduction of product performance. HydroAttack wetting agent solution is compatible with most Class A firefighting foams and agents for side-by-side application during an incident response.

Storage and Handling

HydroAttack Class A concentrate is ideally stored in its original shipping container. It may also be kept in tanks or other containers which have been designed for such concentrate storage. Recommended construction materials for concentrate storage tanks and containers include stainless steel (Type 304L or 316), high density cross-linked polyethylene, and reinforced fiberglass polyester (isophthalic polyester resin) with a vinyl ester resin internal layer coating (50 -100 mils). Refer to National Foam Technical Bulletin NFTB290 for further information.

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Concentrate evaporation accelerates when the product is exposed to air. Storage tanks should be kept full, sealed and fitted with a pressure vacuum vent to prevent free exchange of air. The recommended storage temperature range for this wetting agent concentrate is between 35° F and 120° F (2°C to 49°C). Foam Seal Balls - hollow plastic spheres floated on top of atmospheric tanks in two layers - may be used to slow evaporation.

Refer to National Foam Technical Bulletin NFTB245 for further recommendation details regarding concentrate storage and preservation.

HydroAttack wetting agent concentrate is freeze/thaw stable. Should the product freeze during shipment or storage, no performance loss is expected upon thawing and gentle remixing.

Solutions of HydroAttack wetting agent, up to 1% concentration, may be premixed with most potable municipal water and stored for up to 30 days. Since municipal water quality varies, it is recommended that a small premix sample be assessed before producing large quantities of premix solution.

Shelf Life, Inspection, and Testing

The shelf life of any Class A foam or wetting agent concentrate is maximized by proper storage conditions and maintenance. Factors affecting shelf life are wide temperature changes, extreme high or low temperatures, evaporation, dilution, and contamination by foreign materials.

National Foam concentrates have been tested and have not shown significant loss of performance even after 10 years or more, provided they are tested annually and stored according to recommended guidelines.

The National Fire Protection Association (NFPA) recommends annual testing of all firefighting concentrates. National Foam provides a Technical Service Program to conduct such tests. Refer to National Foam product data sheet NFC960 for further details on the annual testing program.

Sustainability

National Foam HydroAttack wetting agent concentrate is manufactured with no intentionally added PFAS, PFOA, fluorosurfactants, fluoropolymers, or organohalogens. The product formula also contains no intentionally added siloxanes.

The HydroAttack concentrate is 100% readily biodegradable. However, appropriate care should be taken to prevent spills of concentrate or solution from entering groundwater, surface water, or storm drains. Disposal of concentrate or solution should be handled in accordance with federal, state, and local regulations.

Ordering Information

Container	Shipping Weight	Shipping Dimensions	Part Number
5-Gallon Pails (19 liters)	45 lb. (20.4 kg)	1.13 cu. ft. ³ (0.032 cu. m)	2170-0340-8
55-Gallon Drums (208 liters)	486 lb. (220.4 kg)	11.1 cu. ft. ³ (0.314 cu. m)	2170-0481-7
275-Gallon IBC Reusable Tote Tank (1041 liters)	2456 lb. (1114.0 kg)	48.2 cu. ft. ³ (1.365 cu. m)	2170-0725-7
330-Gallon IBC Reusable Tote Tank (1249 liters)	2940 lb. (1333.6 kg)	55.8 cu. ft. ³ (1.580 cu. m)	2170-0033-7

National Foam

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National Foam operates a continuous program of product development. The right is therefore reserved to modify any specification without prior notice and National Foam should be contacted to ensure that the current issues of all technical data sheets are used.

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