ANGUS FIRE

DATA SHEET
#AFC230

HI-EX
High Expansion Foam Concentrate

Description

Angus Hi-Ex is a blend of high activity, synthetic foaming agents and foam stabilizers, specially formulated to produce high quality stable foam. Hi-Ex is effective on a wide variety of Class A and Class B fire risks. The finished foam has drainage characteristics far superior to those of standard detergents; this increases its ability to carry water to the fire and acts as a positive aid to effective fire suppression.

Features

- Produces extremely stable long lasting foam
- Can be used with fresh or sea water
- Suitable for all medium and high expansion equipment
- Economical to use
- Three Way Fire Attack
- Hi-Ex combats fires in three ways:

    1. Initial contact with fire generates a large volume of steam displacing the super heated gases and products of combustion.
    2. At the same time, the water content of the foam when converted to steam, produces a valuable cooling effect.
    3. Finally, the large volume of foam generated engulfs the area and totally seals off and extinguishes any remaining fire.

Applications

Hi-Ex can be used for minor incidents such as small hydrocarbon liquid spill fires, where close approach to the fire allows hand-held apparatus to be used. It can be used in conjunction with fixed installations to provide dike protection where it can achieve extinguishment of fire or suppression of toxic vapor release after chemical spillage.

It may also be used for the total flooding of fire areas such as cellars and basements of buildings, and larger areas such as ships' holds, machinery spaces, etc. Hi-Ex is most effective when dealing with out-breaks of fire in inaccessible locations, where direct application of conventional agents such as water is difficult or impossible due to smoke or restricted access.

Equipment

Angus Hi-Ex has been designed for use with the full range of Angus foam making equipment, but can also be used satisfactorily with other manufacturers' equipment. Hi-Ex is suitable for use with all normal water supplies, ranging from soft to very hard water and also seawater.

Storage

Hi-Ex should be stored in plastic or plastic lined containers. It has no effect on stainless steel, copper or brass but should not be stored in mild steel or galvanized surfaces. Indefinite storage life is possible if the foam is kept in its original shipping container, and stored within the recommended temperature range.

Recommended Induction Rate

- 1-1/2%-3% for high expansion foam - 200:1 to 1,250:1*
- 3% for medium expansion foam - 20:1 to 200:1

* Depending on equipment used.

Typical Physical Properties

Specific Gravity @ 68°F (20°C) 1.030
pH @ 68°F (20°C).....7.2
Viscosity @ 68°F (20°C) .....7.0 csks (7.0 mm^2/sec)
Usable Temperature.....35° F to 120°F (2°C to 49°C)

Ordering Information

CONTAINER	SHIPPING WEIGHT	PART NUMBER
5-Gallon Pails		
(19 liters)	45 lb. (20.4 kg)	3120-2340-6
55-Gallon Drums		
(208 liters)	494 lb. (224.1 kg)	3120-2481-6
275-Gallon IBC Reusable Tote Tank		
(1041 liters)	2505 lb. (1136.3 kg)	3120-2725-6
Bulk	8.6 lb./gal (1.03 kg/l)	3120-2001-6

Palletizing of pails and drums is available upon request.

Shipping Cube
5-Gallon Pail.....1.13 cu. ft. (0.032 cu. m.)
55-Gallon Drum .....11.51 cu. ft. (0.326 cu. m.)
275-Gallon IBC Tote Tank .....51.11 cu. ft. (1.061 cu. m.)

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