

# AFC3B-AFFF 3%

## Equipos y Dispositivos de espuma

## AFC3B 3% AFFF Concentrate

## Description

ANSULITAFC3B3% AFFF(AqueousFilm-Formingfoam) Concentratecombines/luoro- and hydrocarbon-surfactant technologiesto providesuperiofire and vaporsuppressioffor ClassB hydrocarbonfuelfires. Thissynthetidoamconcentrate is intended for fire fighting application at 3% solution in fresh, salt, or hardwater.

ANSULITAFC3B foamsolutionutilizes three suppression mechanism intended for rapid fire knock down and superior burnback resistance:

- n Thefoamblanketblocksoxygensupplyto the fuel.
- n Liquiddrainsfromthe foamblanketand formsan aqueous film that suppresses fuelvaporand seals the fuel surface.
- n Thewatercontentof the foamsolutionproduces cooling effect for additionafire suppression.

### TYPICAIPHYSIOCHEMIC R BOPERTIES

Appearance	Paleyellowliquid
Density	1.01± 0.02g/ml
рН	7.0-8.5
Refractivendex	1.3480minimum
Viscosity*	2 ± 1 cStat 77 °C(25 °C)
Viscosity**	3 ± 1.5cPsat 77 °C(25 °C)
Viscosity**	5 ± 2 cPsat 35 °F(2 °C)
SpreadingCoefficient	3 dynes/cmminimumat 3% dilution
PourPoint	29 °F(-2 °C)
FreezePoint	25 °F(-4 °C)
*Cannon-Fenske viscometer	

\*\*Brookfield viscometer, Spindle #4 at 60 rpm

## Application

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ANSULITAFC3B3% AFFFConcentrates intended for use on Class B hydrocarbo fuel fires with low waters olubility such as crudeoils, gasolines dieselfuels, and aviation fuels. It is not suitable for use on polar fuels with appreciable waters olubility, such as methylandethylal coholacetone, and methyle thyl ketone.

The concentrat@lsohasexcellentwettingpropertiesthat can effectively combatClassA fires. It may also be used in conjunction with drychemicabgents to provid@vengreater fire suppressioperformance.

ANSULITAFC3BConcentrate an be ideal for fixed, semi-fixed, and emergency espons firefighting application suchas:

- n Fuelorchemicastoragetanks
- n Industriachemicaandpetroleumprocessingacilities
- n Truck/railoadingandunloadingfacilities
- n Flammableiquidcontainmentareas
- n Aircrafthangars
- n Mobilæquipment



## Approvals, Listings, and Standards

ANSULITAFC3B3% AFFFConcentrates designed n accordancewith Nationa FireProtectionAssociation(NFPA) Standard 1 for Low-, Medium-and High-Expansiofoam. The concentrates approved listed qualified under, or meets the requirements of the following pecifications and standards:

- n UL Standard 62, FoamLiquidConcentrates
  - ULListedfor usewithan extensiværrayof proportioning and dischargæquipmentincludingsprinklerssrequired by NFPA16
- n ULCS564,Category1 FoamLiquidConcentrate

n FMApprovals FM5130

 Thisconcentrates onlyFMApproved n conjunction with the specific proportioning quipmentand discharged evices asshown in the Approva Guide (www.Approval Guide.com)







Theenvironmentally-mindf@NSULIT&FC3B3%AFFF Concentrateformulationcontainsshort-chainC-6 fluorochemicals manufacturedusinga telomer-basedprocess.

Thetelomerprocessproducesno PFOS and these C-6 materials do not break dowr to yield PFOA. The fluorochemicals used in the concentratemeet the goals of the U.SEnvironment arotection Agency 2010/15 PFOAS tewardship for gram.









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## AFC3B-AFFF 3%V



## Equipos y Dispositivos de espuma

## **Foaming Properties**

ANSULITEFC3B3% AFFFConcentratemaybe effectively appliedusingmostconventionaloamdischargæquipment at 3% dilutionwithfresh,salt,or hardwater.Foroptimum performancewaterhardnesshouldhot exceed500 ppm expressedescalciumand magnesium.

ANSULITEFC3BConcentraterequires/owenergyto foam and the foamsolution maybe applied with a spirating and non-aspirating lischarged evices Aspirating lischarged evices typically produce expansion at los from 3.5:1 to 10:1 depending on the type of device and the flow rate. Non-aspirating evices, such as hand linewater fog/stream ozzles or standards prinkler heads typically produce expansion at los from 2:1 to 4:1. Medium-expansion is charged evices typically produce expansion ratios from 20:1 to 60:1.

#### TYPICAFOAMCHARACTERISTICS(FreshandSaltWater)

ProportioningRate	3%
ExpansionRatio	≥ 7
25%DrainTime(min:sec)	≥ 2:30
50%DrainTime(min:sec)	≥ 4:30
** per EN 1568-3, 2008 protocol	

#### Proportioning

Therecommended perationatemperature angefor ANSULITE AFC3B3% AFFFC oncentrates 35 °F to 120 °F (2 °C to 49 °C). This foam concentrate can be correctly proportioned using most conventional properly calibrated in-line proportioning equipments uch as:

- n Balancedandin-linebalancedpressurepumpproportioners
- n Balancecpressurebladdertanksandratioflow controllers
- n Around-the-pumpypeproportioners
- n Fixedor portablein-lineventurity peproportioners
- n Handlinenozzleswithfixed eductor/pick-uptubes

 $\label{eq:constraint} For immediate use: The concentratemay also be diluted with freshors altwater to a 3\% pre-mix solution.$ 

Fordelayeduse:ConsultTechnicaServicesorguidance regarding the suitability of a stored pre-mixsolution (fresh wateronly).

### Storage and Handling

ANSULITEFC3B3% AFFFConcentrateshouldbe stored in the originals uppliedpackage(HDPEtotes,drumsorpails) or in the recommendedloamsystemequipments outlined in Tyco FireProtectiorProductsTechnicaBulletin" Storage fFoam Concentrates Theproductshouldbe maintained within the recommendedemperature angel of the concentrate freezes during transportor storage full productservice ability and be restored upon thaw with gentlere-mixing.

Factorsaffecting the foamconcentrate'song-termeffectiveness includetemperaturexposureandcyclingstoragecontainer characteristicsirexposureevaporationdilution and contaminationTheeffective life of ANSULITEFC3B Concentrateanbe maximizedhroughoptimastorage conditionsndproperhandlingANSUL \* foamconcentrates havedemonstrate@ffective firefighting performanc@vith contentsstoredin the originabackageunderproperconditions formorethan10 years.

MixingANSULITEFC3BConcentratewithotherfoam concentratesforlong-termstorageis not recommendedUsein conjunctionwithcomparabl&% AFFFproductsforimmediate incidentresponses appropriate.

### Material of Construction Compatibility

Tohelpavoidcorrosiongalvanizedpipe and fittings should neverbe used in contact with undiluted ANSULIT & FC3B 3% AFFFC oncentrate Refer to TycoFireProtectionProducts Technica Bulletin" Acceptable Materials of Construction for recommendation and guidance regarding compatibility of foam concentrates with common materials of construction in the firefighting foam industry.

#### Inspection

ANSULIT&FC3B3% AFFFConcentrat@houldbe inspected periodicallyn accordanc@vithNFPA11, EN13565-2,or other relevanstandardA representativeoncentrat@ampl@should be sentto TycoFireProtectiorProduct&FoamAnalytical Service@r otherqualifed laboratorforqualityanalysi@erthe applicabl@standardAnannualinspectiorandsampl@analysis istypicallyufficient, unles@the producthasbeenexposedo unusuabcnditions.

#### **Ordering Information**

ANSULITAFC3B3% AFFFConcentrates available pails, drumstotes, or bulk shipment.

PartNo.	Description	ShippingW_eight
Pails		
443090	5 gal(19 L)	45 lb (20.4kg)
Drums		
443091	55 gal (208L)	45 lb (224.5kg)
Totes		
443092	265 gal (1003L)	24631b (1117kg)
446154	320 gal (1211L)	29631b (1344kg)

For bulk orders, consult an account representative

Safety Data Sheets (SDS) are available at www.ansul.com.

**Note:** The converted values in this document are provided for dimensional reference only and do not reflect an actual measurement.

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