



CHEMGUARD F-410A

CHEMGUARD F-410A is a highly concentrated, proprietary blend of CHEMGUARD fluorosurfactants. This "superconcentrate" has been designed to be used primarily for the formulation of high efficiency AFFF concentrates that meet the requirements of US Military specifications such as Mil-F-24385F. It can be diluted directly with fresh (tap) water and appropriate amounts of hydrocarbon surfactants and solvents to manufacture AFFF's (3 and 6%). With a proper adjustment of the dilution ratio to prepare the concentrate, one can formulate AFFF products that can meet other specifications.

Typical Properties¹:

Appearance	Clear, colorless to yellow, light green liquid
Composition	39.6% actives, 5% t-butanol, 11% hexylene glycol, 43.4% water
Density	1.167g/ml at 25°C
Flash Point	35°C (95°F) Pensky-Martens Closed Cup
pH	6.0 – 6.5
Refractive Index	1.385 – 1.395 at 25°C
Freezing Point	-8°C (DSC 5°C/min heating rate)
Stability	Store between 5°C and 50°C. Some solids will separate out at temperatures below 5°C over time. If frozen or solids separate out of the product, bring it to room temperature to return product to a clear liquid. Freezing and thawing will not affect the properties or performance.

¹ Not for specification purposes.