



ISS EGY-CP2305 3% FLUOROPROTEIN FOAM CONCENTRATES

الشركة الدولية لأنظمة الأمن والسلامة ش.م.م
Int. Security & Safety Systems Co. S.A.E.

Description

The ISS brand 3% Fluoroprotein foam concentrate, EGY-CP2305, is formulated from hydrolysed protein, fluorochemical surfactants, foam stabilizers (metal salts), bactericide, corrosion inhibitors, freezing point depressants and solvents. It is transported and stored as a concentrate to provide ease of use and considerable savings in weight and space.

It is intended for use as a 3% proportioned solution either in fresh, salt or hard water. The correct proportioning ratio is 3 parts of concentrate to 97 parts of water.

Two fire extinguishing mechanisms are in effect when using fluoroprotein foams. First, a foam blanket prevents the release of fuel vapor. Second, the water content of the foam provides a cooling effect.

Typical Properties

Fire Classes	B
Shape and Colour	Brown, Dark Liquid
Smell	Characteristic, Protein
Density (20°C)	1.15 ± 0.03 g/ml
pH (Concentrate, 20°C)	6.0 – 8.0
Viscosity (20°C)	10.0 ± 4.0 mm ² /s
Sediment	≤ 0.2%
Admixing ratio	3% Vol.
Expansion Ratio (EN 1568-3)	≥ 7.0
Drain Time 25%, (20°C, EN1568-3)	≥ 5:00
Drain Time 50%, (20°C, EN1568-3)	≥ 9:00
Expansion	Low, (Medium)
Freezing Point	≤ -15°C
Pour Point	≤ -12°C
Recommended Storage / Usage Temperature	-10 to +60° C

Listings and Approval

EGY-CP2305 is approved or listed according to:

- UL-162

Application

EGY-CP2305 Fluoroprotein foam concentrate is intended for use on Class B hydrocarbon fuels having low water solubility, such as various crude oils, gasoline, diesel fuels, aviation fuels, etc. It is not suitable for use on fuels having appreciable water solubility (Polar solvent), i.e., methyl and ethyl alcohol, acetone and methyl ethyl ketone. This concentrate can be used only with air aspirating type discharge devices.

It can also be used with foam compatible dry chemical extinguishing agents without regard to the order of application, to provide even greater fire protection capability.

Proportioning

EGY-CP2305 can be used by most conventional foam equipment such as:

- Balance pressure pump proportioning equipment.
- Bladder tank and related proportioners.
- Around-the-pump proportioners.
- Fixed and portable In-line venturi type inductor.
- Fixed or handline nozzle or monitors with fixed induction/pick up tubes.

Performance

EGY-CP2305 is measured against specifications and standards such as EN 1568:2008 Part 3 and UL-162.

Foaming Properties

When used with fresh or salt water or water of any hardness at the correct dilution and with most conventional foam making equipment, the expansion ratio will vary depending on the performance characteristic of the equipment. Air aspirating discharge devices produce expansion ratios from 6 to 1 to 12 to 1 depending primarily on type and flow rate. In general, the higher the flow rate the higher the expansion ratio.

Therefore, monitors and foam chambers normally produce higher expansion ratio than foam water sprinkler heads and hand held type nozzles.

3% FP # EGY-CP2305

Typical expansion ratio for foam chambers are in the range of 5 to 1 to 7 to 1, and for foam water sprinkler heads in the range of 3 to 1 to 6 to 1. Subsurface injection is a special case where generally speaking, expansion ratios of 2 to 1 to 3 to 1 are preferred but up to 4 to 1 is also effective.

Storage

EGY-CP2305 Fluoroprotein foam has an operational temperature range of -10°C and +60°C. Limited exposure to temperatures above +60°C does not affect the firefighting performance.

When stored in the packing supplied (polyethylene drums or pails) within the temperature limits specified, or in equipment recommended by the manufacturer as part of the foam system, the shelf life of EGY-CP2305 Fluoroprotein foam concentrate is generally in excess of 10 years.

If the product is frozen during storage or transportation, thawing will render the product completely usable.

the factors affecting shelf life and stability for ISS brand foam agents are discussed in details in our technical bulletin for storage recommendation.

Safety and Handling

See our corresponding "Material Safety Data Sheet"

Compatibility

There are no specifications or standards which address the subject of compatibility of different manufacturer's brand of fluoroprotein foam concentrates. In an emergency or if the manufacturer has supporting test data to substantiate that the mixer meets the same requirements as the individual component concentrates, they may be mixed together in the same storage vessel.

Ordering Information

Part No.	Container	Weight
EGY-CP2035P	6.6 Gal (25L)	67 lbs
EGY-CP2035D	55 Gal (208L)	555 lbs

EGY-CP2305 can be supplied in cans, drums, totes or bulk contact us for bulk delivery details.

Quality Assurance

EGY-CP2305 as with all ISS products is subject to very stringent quality controls throughout all stages of production, from incoming raw to the complete product and is manufactured in an ISO 9001:2008 controlled facility quality assurance is therefore guaranteed.

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