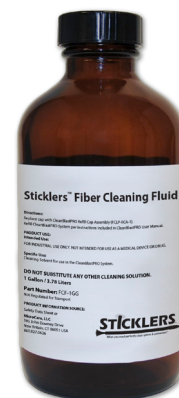


Sticklers™ Fiber Cleaning Fluid



FCF-1GG
1 Gallon / 3.8L

Product Features:

- Engineered for VIAVI Solutions® CleanBlastPRO fiber end face cleaning system (FCL-PRO-L)
- Cleans dust, lint, oil and grit from fiber end faces
- High purity, optic-grade cleaning solvent
- Small refill bottle, 225ml (8 oz) = 8,000 cleans
- Large refill bottle, 3.8L (1 Gallon) = 128,000 cleans
- Refill pail, 18.9L (5 Gallon Pail)
NOTE: does not connect directly to CleanBlastPRO autofill
- Non-flammable
- Leaves no residue

Sticklers Fiber Cleaning Fluid is a fast-drying solvent designed to clean dust, lint, polishing grit, oil, and fingerprints from fiber optic connector end faces in fiber end face cleaning machines.

Engineered for equipment use, this product is *VIAVI* factory approved for use in their CleanBlastPRO System. Fiber Cleaning Fluid is filtered and packaged to enhance the CleanBlastPRO System cleaning capabilities.

Nonflammable and fast evaporating, *Sticklers* Fiber Cleaning Fluid ships as non-hazardous/not regulated by all modes of transportation, including air freight.

TECHNICAL DETAILS	
Odor	Slight, Ether
Boiling Point	45°C / 113°F
Chemical family	HFE
Percent Volatile	100
Vapor Pressure @ 20°C	360 mmHG (@25°C)
Non Volatile Residue (% by volume)	<0.010
HEALTH, SAFETY, AND ENVIRONMENTAL DATA	
Flashpoint	None
Flammable	No
NFPA	Health: 3 Flammability: 1 Instability: 0
Organic Content	889 g/l @20°C
RoHS and WEEE Compliant	Yes
GHS/ICS Pictogram	
PACKAGING	
Glass Bottle 8 oz / 225ml	FCF-1J (replaces FCLP-SOL1 and FCLP_SOL1-6)
Glass Bottle 1 Gallon / 3.8L	FCF-1GG (replaces FCLPSOL1-XL)
Steel Pail 5 Gallon / 18.9L	FCF-1P

FCF vs IPA Comparison Points and Chart

We are often asked why to use optical purpose-built cleaning fluid vs lower cost options like Isopropyl Alcohol (IPA).

Thus, here is our take on the comparisons:

- Reagent grade IPA (99.8% purity with <0.05% impurities and low water content) is never used in the fiber optic industry.
- Other IPA grades are often used which contain impurities and water along with leaving residues (shown under interferometry equipment). All of which can lead to streaking and re-deposits.
- All IPA is hygroscopic meaning IPA absorbs moisture from the air reducing its purity – and water adds mineral impurities over time.
- Technicians often use a mixture of IPA and water (91% & 70% are common) in unpure plastic containers – further adding contaminants in the microscopic world.
- IPA has low density which translates inferior cleaning ability. Its high boiling point naturally means a slow evaporation rate which prevents technician's immediate need to clean and connect.
- IPA has a low flash point thus is flammable and can ignite around servers and electronics that are “hot”.

Comparison Summary Chart

(compare above features with Sticklers™ Engineering Fluid characteristics on the reverse side)

	FCF-1	ISOPROPYL ALCOHOL
Flammability ⁽¹⁾	No flash point	Highly flammable liquid and vapor – a stray spark could ignite even at room temperature
VOC Content ⁽²⁾	70% VOC	100% VOC
Evaporation Rate ⁽³⁾	Very fast	Slow – faster than water but 8x slower than FCF-1
Water Solubility (water in solvent) ⁽⁴⁾	Very low (will not absorb water from air)	Very high – will absorb water from the air affecting drying rate and cleaning performance
Residues	None	Leaves residue (water marks)
Surface Tension ⁽⁵⁾	21 dynes/cm	23 dynes/cm
Cleaning Performance	Excellent	Poor solubility for oils and greases

⁽¹⁾ Flash point means vapors can ignite at low temperature.

⁽²⁾ VOC – the less the better from an indoor air quality perspective.

⁽³⁾ Evaporation Rate – higher the value, faster the evaporation.

⁽⁴⁾ IPA continues to absorb atmospheric water even through its packaging.

⁽⁵⁾ Surface Tension – the lower the number the better as the molecule formula can break the contamination bond from the surface

Summary

After understanding the comparison between FCF Engineered Fluid and IPA, one can come to conclude the value of FCF specifically in fiber connector cleaning processes. This is why it is the preferred solution for today and future fiber optic cleaning purposes as light signal strength vitally needs to be maintained.

When You Need Perfectly Clean Splices & Connectors™



SticklersCleaners.com



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