

# Solvay Solexis

Applying the science of fluorine chemistry  
to solve real world problems

## Fluorinated Fluids

Galden® PFPE  
H-Galden® HFPE  
Fomblin® PFPE

## Fluoropolymers

Halar® ECTFE  
Solef® PVDF

## Fluoroelastomers

Tecnoflon® FKM & FFKM

## Coatings

Halar® ECTFE

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SOLVAY  
Solexis



a Passion for Progress®



# Solvay Solexis

World leader in fire safe materials,  
delivering the fire and smoke performance,  
chemical resistance, and purity demanded  
by the Pharmaceutical, Bioscience,  
and Semiconductor industries

## Meeting the requirements of FM Global Standards:

FM 6930 - Approval Standard  
for Flammability Classification  
of Industrial Fluids

FM 4922 - Approval Standard  
for Fume Exhaust Ducts or  
Fume and Smoke Exhaust Ducts

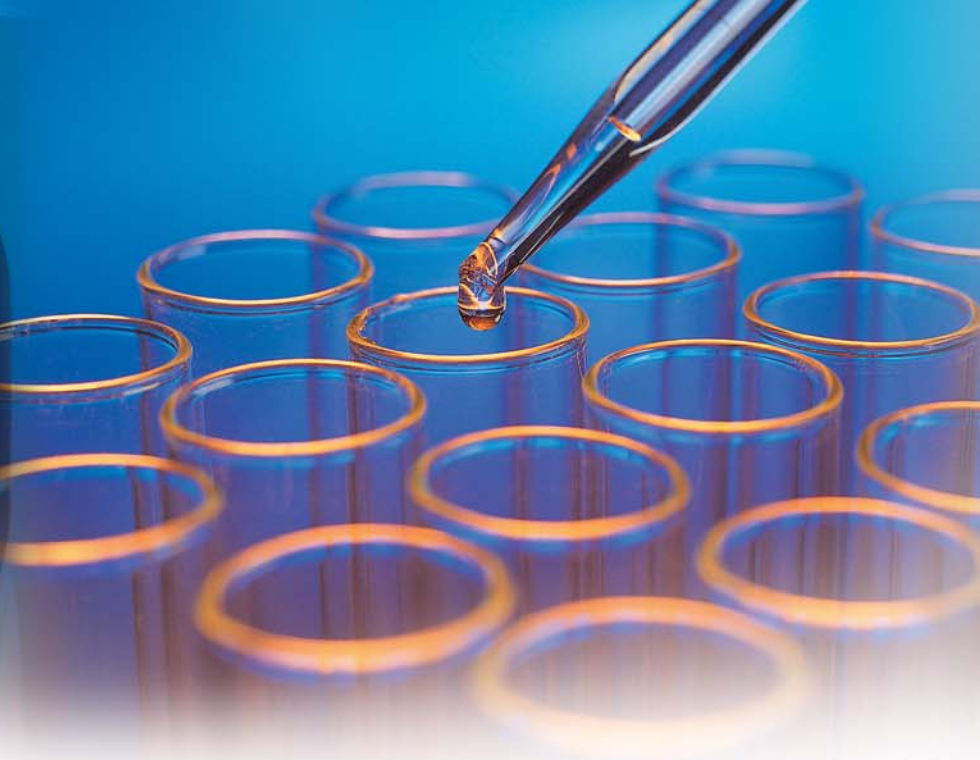
FM 4910 - Test Standard for  
FM Approvals Cleanroom  
Materials Flammability Test  
Protocol



SOLVAY  
Solexis







### FM 4910 Test Standard for FM Approvals Cleanroom Materials Flammability Test Protocol

This standard covers the evaluation of materials used in cleanroom occupancies for use in, but not limited to, semiconductor, pharmaceutical, FPD/LCD, and photovoltaic process equipment.

**Solvay Solexis Fluoroplastics meet FM 4910 Fire Safety eliminating the need for fixed fire suppression.**

#### Halar® ECTFE Fluoropolymer

- Delivers excellent fire safety and smoke suppression properties
- Offers complete chemical resistance through the full range of pH - ideal for alkaline chemistry
- Readily machined, welded, and thermoformed

#### Solef® PVDF Fluoropolymer

- Delivers excellent fire safety and smoke suppression properties
- Offers good chemical resistance - ideal for ultrapure water
- Readily machined, welded, and thermoformed

For more information, visit [www.solvaysolexis.com](http://www.solvaysolexis.com) to download these brochures:

*Solef & Hylar PVDF Design and Processing Guide*

*Halar Design and Processing Guide*

*The Safe Choice in Fire Safe Plastics - Halar ECTFE*

*Sematech 4910 Materials Study*

### FM 6930 Approval Standard for Flammability Classification of Industrial Fluids

This standard states the flammability classification rating for industrial fluids intended for, but not limited to, lubricants, hydraulic power transmission, turbine governor control, transfer insulation, and cooling.

For pharmaceutical and semiconductor heat transfer and lubrication applications, **Galden® PFPE**, **H-Galden® HFPE**, and **Fomblin® PFPE** fluids deliver better performance than silicone and flammable fluids where safety, cleanliness, and non-flammability are required:

- FM 6930 listed
- No flash or fire point; no explosion hazards
- Odorless and colorless
- Good compatibility with metals, plastics, rubber
- No formation of decomposition residues
- No change in chemical properties with use
- High dielectrical properties
- Available as fluids, lubricants, or greases

For more information, visit [www.solvaysolexis.com](http://www.solvaysolexis.com) to download these brochures:

*Galden and H-Galden: Working Fluids for Chemical & Pharmaceutical Industry*

*Case History: Conversion to Galden & H-Galden*

*Case History: Galden & H-Galden vs Silicone Oils*

*Fomblin - A Unique Source for High Performance PFPE Lubricants*

### FM 4922 Approval Standard for Fume Exhaust Ducts or Fume and Smoke Exhaust Ducts

This standard sets fire safety performance requirements for ducts used in exhausting chemical fumes and corrosive vapors in cleanroom occupancies in, but not limited to, the semiconductor industry.

Solvay Solexis Halar ECTFE coating on stainless steel substrate eliminates the need for fixed fire suppression and provides excellent corrosion protection.

#### Halar ECTFE Powder Coating

- Delivers excellent fire safety and smoke suppression properties
- Offers complete chemical resistance through the full range of pH
- Coated stainless steel duct maintains its structural integrity in the presence of fire

For more information, visit [www.solvaysolexis.com](http://www.solvaysolexis.com) to download this brochure:

*Fluoropolymer Coatings for Cleanroom Exhaust Systems - Halar ECTFE*

