

# Main Catalogue



Everyone of our Fluorine Free products are TOPA Tested and contain 0.0% fluorosurfactants, 0.0% fluoropolymers and 0.0% syloxane.

Everyone of our products with fluorine are manufactured exclusively with C6 Fluorosurfactants (No PFOs), according to "EPA 2010/2015-PFOA Stewardship Program".

Product Category	Concentration	Product Name	Aviation	Marine	Fire Brigades	Industry	Mining	Aerial App.
FLUORINE FREE (HYDROCARBONS - NEWTONIAN)	0.5%	Silvara ZFK	✓	✓	✓	✓	✓	✓
	1%	Silvara I <b>NEW</b>	✓	✓	✓	✓	✓	✓
	3%	Silvara K3	✓	✓	✓	✓	✓	✓
	3%	Silvara T3(3%) - T6 (6%)	✓	✓	✓	✓	✓	✓
FLUORINE FREE (ANTIALCOHOL)	1x3%	Silvara APC 1	✓	✓	✓	✓	✓	✓
	3x3%	Silvara APC + <b>NEW</b>	✓	✓	✓	✓	✓	✓
CLASS A	0,3%	BoldFoam A+ B-Water (Wetting Agent)	✓	✓	✓	✓	✓	✓
	2% 3% 6%	BoldFoam M2 BoldFoam M3 BoldFoam M6	✓	✓	✓	✓	✓	✓
FOREST FIRE RETARDANT	0.1-1%	WhitEx	✓	✓	✓	✓	✓	✓
	100%	WhitEx LF	✓	✓	✓	✓	✓	✓
TRAINING	0.3%	BoldFoam STP+ <b>NEW</b>	✓	✓	✓	✓	✓	✓
	1x3%	BoldFoam STP	✓	✓	✓	✓	✓	✓
FIXED SYSTEMS/ (Premix Ready for Use solutions)	100%	Silvara Tantum <b>NEW</b>	✓	✓	✓	✓	✓	✓
	100%	Silvara -XL <b>NEW</b>	✓	✓	✓	✓	✓	✓
AFF	0.5%	BoldFoam 05	✓	✓	✓	✓	✓	✓
	1%	BoldFoam AFM-1	✓	✓	✓	✓	✓	✓
	3%	BoldFoam BF-100	✓	✓	✓	✓	✓	✓
		BoldFoam B3-C	✓	✓	✓	✓	✓	✓
		BoldFoam B3F	✓	✓	✓	✓	✓	✓
	6%	BoldFoam BF-300	✓	✓	✓	✓	✓	✓
		BoldFoam BF-601 BoldFoam B6	✓	✓	✓	✓	✓	✓
AFF/AR (NEWTONIAN)	0.6%	BoldFoam 6000	✓	✓	✓	✓	✓	✓
	1%	ATILA NEPT1	✓	✓	✓	✓	✓	✓
	3x3%	BoldFoam 611	✓	✓	✓	✓	✓	✓
		BoldFoam 633	✓	✓	✓	✓	✓	✓
AFF/AR	1x3%	BoldFoam B13	✓	✓	✓	✓	✓	✓
	3x3%	BoldFoam BF-130	✓	✓	✓	✓	✓	✓
		BoldFoam B33	✓	✓	✓	✓	✓	✓
	3x6%	BoldFoam BF-330	✓	✓	✓	✓	✓	✓
		BoldFoam B36	✓	✓	✓	✓	✓	✓
	6x6%	BoldFoam BF-360 BoldFoam B66	✓	✓	✓	✓	✓	✓
EXTINGUISHERS (100% are ready-for-use)	10%	BoldFoam XT-10	✓	✓	✓	✓	✓	✓
	100%	BoldFoam F-40	✓	✓	✓	✓	✓	✓
		BoldFoam F-12 <b>NEW</b>	✓	✓	✓	✓	✓	✓



## FLUORINE FREE foams

Low Viscosity - Newtonian products  
TOPA Tested - Ecoefficient

## Specialized in CAFS

Very concentrated foams ≤ 1%  
Better use, storage and logistics



## Adaptability, quickness

New products created on demand  
Concentrates and ready-for-use solutions



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Facta, non verba



**vsfocum.com**  
FIREFIGHTING  
FOAM  
CONCENTRATES

## About VS FOCUM

Focused on extinguishing fires by foam, VS FOCUM is established in 2002 with highly experienced staff both in research as well as manufacturing and quality control of firefighting foam concentrates.

Since the beginning, VS FOCUM was based in offering brand new original formulations, highly contrasted. Following that way, we entered the foam market in a safe way - *rejecting the idea of mass production of cheap, low-quality foams* - guaranteeing the resources for the necessary continuous research and development to be on top of the continuous evolution of firefighting foam concentrates.

As a result of the continuous environmental and technical challenge (explained by the appearance of new fire standards and restrictions on several raw materials), this helps us to specialize in very concentrated products for use in CAFS (Compressed Air Foam Systems). This way, VS FOCUM is gradually conquering markets that demanded special conditions for extinguishing where previous foam solutions didn't work.

### What makes us different?

- 24 / 7 / 365 : Always available for emergencies
- INNOVATION : Unique world-class certified products
- ADAPTABILITY : We create foams on demand for any risk
- QUICK ANSWER : Analysis, enquiries and ready-to-ship stock

## Main fire risk scenarios

### AVIATION



### MARINE / OFFSHORE



### FIRE BRIGADES



### INDUSTRY



### MINING



### AERIAL FIREFIGHTING



## Foam Analysis

CONTROL (Small Scale)



CERTIFICATE (Large Scale)



## CAFS

EXTINGUISHING  
with Wet Foam

PROTECTING  
with Dry Foam

### SILVARA ZFK

Most effective & concentrate Fluorine Free Class B

### BOLDFOAM A+

Wetting / Foaming / Cooling

### SILVARA I

The closest to AFFF - but Fluorine Free

### WHITEX

Forest Fires - fought the right way

## MARINE

The best performance  
with sea water (IMO Certified)

### SILVARA APC+

Great resistance, even with sea/brackish water

### BOLDFOAM M2

Improving the sea water use in High Expansion

## 100% SOLUTIONS

Extinguishing Solutions  
Ready for use (Fluorine Free)

### SILVARA -XL

For the most challenging scenarios

### SILVARA TANTUM

Fluorine Free Antialcohol

## TRAINING

All expansions, all types of water

### BOLDFOAM STP

Learning to extinguish - not just applying foam

## AVIATION

Fast extinguishing  
Reliable resistance

### SILVARA K3

The first ICAO Level B FF world-class certified foam

# THE TIMES - THEY ARE A CHANGIN'

VS FOCUM commits to the idea of having the fastest extinguishing - providing the surest and safest way to avoid the effects of fires. We believe in a way to protect human lives and properties in the most efficient way, along with the minimal environmental impact of our products.

## How do we do it?

VS FOCUM only manufactures high-quality synthetic-based firefighting foam concentrates. We rejected the production and commercialization of protein-based foams (despite their good oleophobicity and subsurface application) due to their reduced shelf life.

Our family of AFFFs and AFFF-ARs rely on the minimum quantity of fluorine content possible to provide an environmentally friendly extinguishing. The fluorine compounds in our formulations only use C6 technology.

With the introduction of Silvara 1 in 2012 into the market, we developed a new range of completely fluorine free (and silicon free) world-class quality foams, including well-known products as Silvara ZFK, Silvara K3, Silvara APC 1 and Silvara APC+, with the latest adding of Silvara Tantum, Silvara I and Silvara -XL. **Our FF foams are TOPA tested.**



## Fluorine Free Technology in VS FOCUM

There are three key directions in our R+D towards creating the best environmental foams:

- 1) Newtonian (Low Viscosity) better than Pseudoplastics  
No problems with gellification, pipe jams or peel formation
- 2) The more concentrated the product is - the more advantages it carries  
(0.5% is always better than 3%)  
More economic logistics - More autonomy - Less storage
- 3) Highest biodegradation along with lowest damage in soil contamination and water treatment.  
Although extinguishing is essential, doing it in the less harmful way is vital



## Measuring the environmental impact (Toxicological Analysis)

VS FOCUM takes special care in 'what happens' after the use of our foam concentrates. There are four essential elements when evaluating the post-use impact:

- 1) Wastewater analysis:  
Effects and toxicity of dissolved matters on algae, daphnia and fishes  
Biodegradation test
- 2) Fire-hygienic test  
Skin/Eye irritation , acute oral toxicity , microbiological examination
- 3) Biochemical and Chemical Examination  
Including determination of fluorinated surfactants
- 4) Water Hazard Classification



THIS IS OUR WAY FOR EXTINGUISHING: FAST, CLEAN, SAFE