

August 13th, 2019

To whom it may concern,

VS FOCUM is a company dedicated to research, design, manufacture and market firefighting foam concentrates, located in Gijón, Spain. The company FIRE RESPONSE is our exclusive distributor for Australia.

Based on the increasing interest and demand of the firefighting world in concentrates that were as environmentally friendly as possible but with certified fire performance, we have introduced into the market some innovative Newtonian (Low Viscosity) Fluorine Free products like Silvara 1 (1%) in 2012, Silvara K3 (3%) in 2014, Silvara ZFK (0.5%) in 2015 and Silvara I (1%, 3%) in 2018. Additionally, we introduced Silvara APC 1 (Pseudoplastic 1x3%) in 2016 and Silvara APC+ (Pseudoplastic 3x3%) in 2018.

As of today, our eco-efficient foam catalogue spans 30 products including FFF, FFF-AR, Class A, Forest Fire Retardants and Wetting Agents.

We can confirm that Silvara ZFK, Silvara I, Silvara APC+, WhitEx, Silvara Tantum, Silvara APC3 were successfully TOPA Tested by ALS Environmental Sydney, proving the complete absence of fluorine.

All of our Fluorine Free foam concentrates (both Newtonian and Pseudoplastic):


- are 100% fluorosurfactant free
- are 100% fluoropolymer free
- are 100% silicon free
- do not contain any fluorinated organic compound
- have no fluorine or fluorinated substances used in its manufacturing
- are produced with equipment thoroughly cleaned to prevent any residue of fluorinated organic compounds.
- will be entirely produced soon in a separate line we are building with entirely brand new equipment not previously used to contain or manufacture fluorinated organic compounds.

Our foams are additionally tested in two ways: fire performance and environmental impact.

- FIRE PERFORMANCE: We certify our products to worldwide standards (EN 1568, IMO, ICAO, LASTFIRE) by renowned entities like MPA Dresden, SP (Rise), Bureau Veritas, RPI, CAA-UK, AFIT, LICO or ClassNK.
- ENVIRONMENTAL IMPACT: Our products are tested by Synlab, GWA, Labaqua, Eurofins or INIA to measure its ecotoxicological effects (biodegradation, toxicity, irritation, etc.).

Also, we produce certified AFFF and AFFF-AR products formulated exclusively with high quality C6 fluorosurfactants in compliance with EPA 2010/2015 PFOA Stewardship Program.

I remain at your disposal for whatever information you may require.



Manuel Acuña  
CEO



**Fire Response**  
Innovative Solutions Specialist