

# ***Vehicle Protection Against Fire And Explosion! (The President's Limousines)***



*FireStopper Marketing Department*  
WHITE PAPER

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## **Preface**

FireStopper International Limited, a transnational Registered Company, is the developer of the most advanced and powerful firefighting technology in the “World. It devoted the first 25-years of its existence to R&D and the recipient of subsequent stand alone testing results in the ratings and certifications awarded by the most recognized and respected third-party testing and listing facilities in the world.

Moreover, this unique Technology has rendered the only available all fire class and subclass effective and anti-explosive products, which are non-toxic, non-irritant, environmentally safe, and non-hazardous over all other existing and available products in the fire and safety channel of business.

Having proven the former statement through the outstanding results of the products testing, rating, and certifications thus received, FireStopper®, in tandem with its novel firefighting and anti-explosion products (the “software”), developed the most durable and reliable supporting hardware and detection systems available today, which also meet and exceed the relative standards used to certify said product lines.

Moreover, the FireStopper® lines of products reach across the full spectrum of safety application including environmental remediation post spills both onshore and offshore.

In the International arena, the FireStopper® brand is the recipient of the highest certifications in all category of Governmental requirements to market such as defined below:

### ***Handheld Portable Extinguishers:***

*ANSI/UL711, ULC – Southwest Research Institute (San Antonio, TX)  
Defense Logistics Agency (DLA) US Gov. NSN Approval #s’*

*EN3-7; EN3-8<sup>1</sup> – MPA, Dresden (Germany)  
CE<sup>2</sup> – DNV*

### ***Firefighting Foam Concentrates:***

*EN1568 – MPA Dresden  
ICAO – CNPP (France)  
IMO – MPA Dresden, Lloyds Registry: DNV & MED  
CE*

### ***Environmental Testing:***

NAMSA, USA  
Associated Laboratories, CA USA  
Environmental Medicine, Inc., USA  
OPUS, Ltd., UK

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<sup>1</sup> This Standard refers to hardware durability, reliability and efficacy

<sup>2</sup> This Mark assures manufacturing quality through yearly inspections

# Executive Summary

## A New Weapon Against All Flammable Events

Never before has there been a greater demand for fire protection in everyday occurrences and/or under hostile environments. The Government service structure can now assign detail responsibility for fire amelioration to designated individual personnel with minimal training.

Due to the now available FireStopper® FFC (*Fire Fighting Catalyst*) Technology, said assigned individual or personnel can effectively and quickly extinguish the fire event returning the affected area to the ambient temperature, enabling the continuation of the intended task.

The advantages not available before in any other employed products or technologies are:

1. Effectiveness on all classes and sub classes of fire (*the FireStopper® PFE-FR FFC is the only product to be certified to deliver full extinguishment of flammable events borne from all flammable materials in existence*)
2. Fast extinguishment (*usually within the range of micro seconds to under 5-seconds*)
3. No re-ignition
4. Non-Irritant (*skin or eyes*), Non-Toxic, Non-Aggressive
5. Freeze resistant to -100°F (-73.3°C)
6. Light weight small silhouette designed for ease in use
7. Stainless steel construction for durability
8. Operating at 200-psi for greater reach (*approx. 8 to 10-ft depending on wind conditions*)

Fig. 1

Specifications				
	<b>FEATURES:</b>  Effective Fire Class: (ABCDK) • 304 Stainless Steel • Micro Polished for Greater Corrosion Resistance • Full Cone Fog Spray Nozzle: 8 to 10 feet  <i>Operating            Temperature:</i>  -30°C to 60°C (-22°F to 140°F) EN3-7  <i>Operating Pressure            (US):</i> 200-psi (EN: 15-Bars)  <i>Test Pressure:</i> 600-psi (41.3 Bars)  <i>Burst Pressure:</i> 2300-psi (158.5-Bars)	<b>FIRE RATINGS            (US):</b>  <i>Southwest            Research Institute</i>  NFPA10 • ANSI/UL711 • Canadian ULC S508 Ratings:  PFE-101: 1B, C, K PFE-102: 2B, C, K "C" Ratings (100kv) Neetrac Lab, Georgia Tech  <b>US Government            Approvals:</b>  <b>Defense            Logistics Agency            (DLA)</b>  <b>NSN #:</b> <b>4210-01-642-5552</b>	<b>(INTL) FIRE RATINGS &amp;            LISTINGS:</b>  <i>MPA Dresden, Germany</i>  EN3-7 Ratings: 3A, 21B, D, 25F, E (35kv) Safe  <b>SPECIFICATIONS:</b>  Extinguisher Media: <b>FireStopper® PFE-FR FFC</b> (Exclusive to FireStopper® Branded hardware)  Freeze Resistant to -100°F (-73.3°C)  • Eco-Safe • Non-Toxic • Non-Irritant • Non-Aggressive  • All Fire Class Effective: ABDF & all subclasses of flammable materials	Subclass Effective: • Alcohols • Esters • Ethers • Carbon Composites • Rubber • Plastics, etc. Class "D" Metals: • Sodium • Lithium • Magnesium, etc.  Limited Warranty: 20- year Onshore & 10-Year for Offshore Use  <b>MEASUREMENTS</b> H: 10" (254 mm) W: 3" (77.4 mm)  <b>NET FILL WEIGHT</b> Approx.: 1.1-lbs (0.5Kg.)

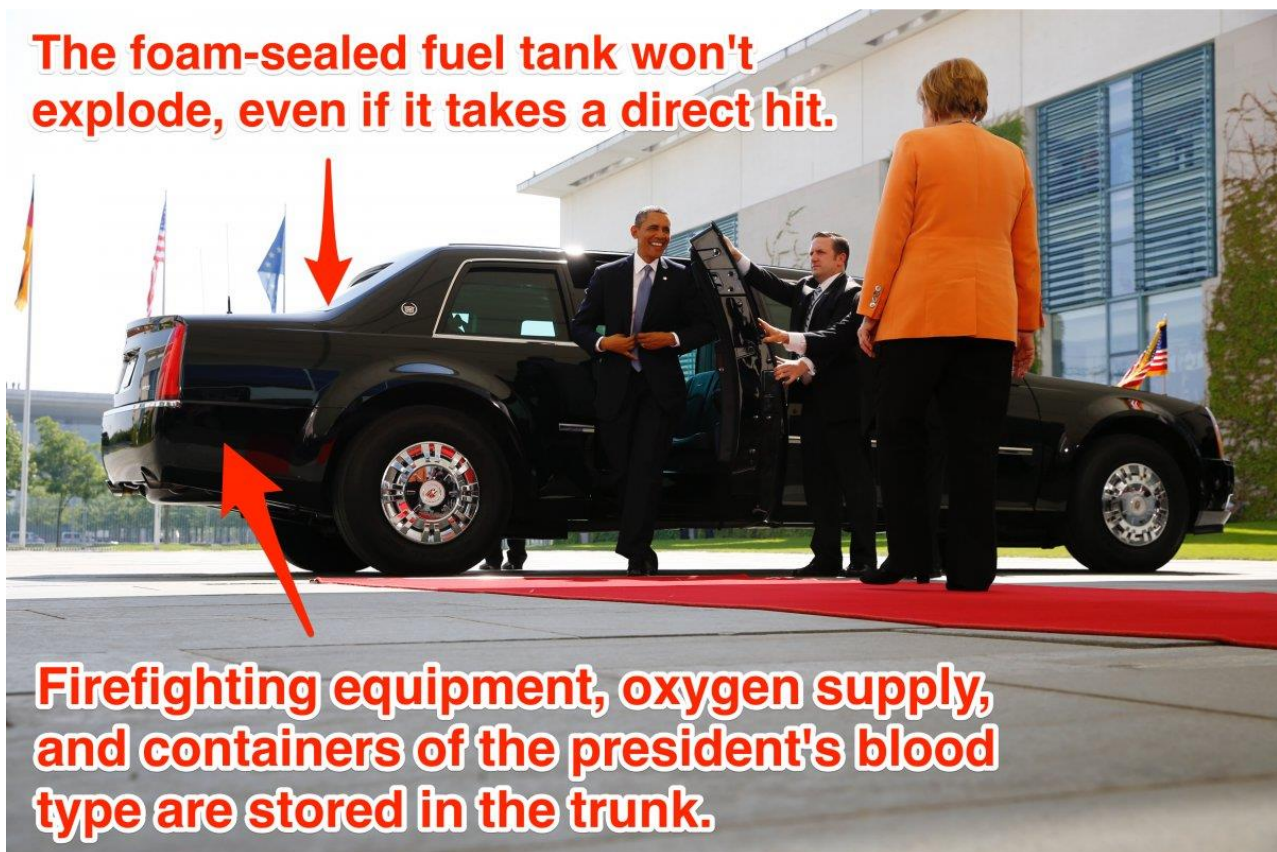


Fig. 2

FireStopper® has been chosen to protect the President of The United States while in transit in all of the Presidential Limousines.



Fig. 3



## FIRE EXTINGUISHER LIQUID PRODUCT DETAILS

- All fire class effective ABCDK (ABDEF) AND ALL SUBCLASSES OF FLAMMABLES
- Non-Toxic, Non-Hazardous, Eco-Safe according to HOCNF (Harmonized Offshore Chemical Notification Format and *FHSA regulations, 16 CFR 1500 and California Proposition 65*) **will meet and exceed all environmental requirements for fire safety products**
- **FireStopper® PFE-FR FFC** (a premix exclusively available with for use in conjunction with FireStopper® trademarked systems)

### Advantages:

- This product is designed for use exclusively with FireStopper® trademarked systems and delivers:
  - DLA approved
  - Full efficacy on all fire class and subclasses
  - -100°F freeze resistance while in use without harmful antifreeze additives
  - Viscosity: water-thin
  - Anti-explosive properties
  - Highest ratings in the world both: EN3-7 & UL7-11
  - Highest Eco-Safety testing results under HOCNF, and meet or exceed *FHSA regulations, 16 CFR 1500 and California Proposition 65*
  - Ideal for use where extreme cold temperatures may be a factor
  - The ideal product for use in concert with FireStopper® CAC (*Compressed Air Catalyst*) units; please see CAC Catalog

## Conclusion

Asymmetric warfare and conventional engagements will require a new generation of fire protection. FireStopper® has developed the deepest variety and most flexible hardware to deploy the most advanced, powerful, reliable and safe array of firefighting and anti-explosion media available in the world. No matter whether it is necessary in a concentrated form for massive use or in a premix format exclusively designed for use through FireStopper® trademarked portable or fixed systems, FireStopper® is ready to deliver...