Environmental Statement

Introduction

The purpose of this document is to illustrate the anticipated environmental impact of the Fire Safety Stick – a non-pressurised fire extinguisher – based on the intrinsic properties of the device. These effects are considered through the complete life-cycle of the product from manufacture.

Comparisons are also drawn against the impact of traditional pressurised fire extinguishers commonly in use today.

Where relevant information is available, specific directional statements are included concerning the Carbon Footprint of the device across its life-cycle. Broader environmental and user health considerations are also addressed in this document.

The environmental impact of this unique innovative fire extinguisher has already been closely reviewed by many leading worldwide authorities and commercial organisations. These days it is becoming more and more important that any new product adopted by these bodies demonstrates a reduced environmental impact throughout its life-cycle.

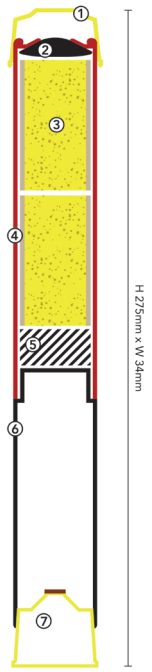
We are proud to say that, during these various independent reviews, the product has met these requirements and is becoming more and more the compact fire extinguisher of choice.

Manufacturing: Composition of Fire Safety Stick vs Traditional Extinguishers

The Fire Safety Stick works in a very different way from traditional pressurised extinguishers and its composition is much simpler, as shown in the cross-sectional diagrams below. This is reflected in the comparative manufacturing processes.

What makes the **Fire Safety Stick?**

① Top Protection Cap
② Black Tip
③ Resin & Cardboard
④ Aluminium Tube
⑤ Padding
⑥ Handle
⑦ Striker



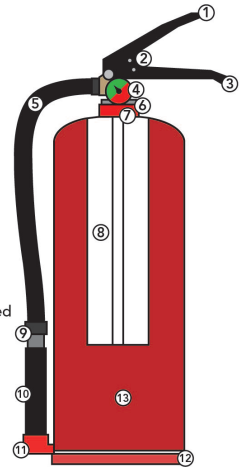
Not drawn to comparative scales

Traditional pressurised extinguishers must incorporate secure containers capable of holding their contents under pressure. They have many more components than the Fire Safety Stick and therefore use more materials and more complex processes in their manufacture and testing.

- **Components include** – safety pin; carrying handle; hose outlet; pressure gauge; dip tube assembly; threaded neck ring; hose assembly; valve body; spray nozzle; nozzle holder; plastic skirt.
- **Materials include** – aluminium; steel; stainless steel; plastic; rubber; brass.
- **Processes include** – cold impact extrusion; deep drawing; welding; forging; machining; burst testing; discharge testing.

What makes a **Pressurised Extinguisher?**

① Operating or Squeeze Lever
② Safety Pin
③ Carrying Handle
④ Pressure Gauge
⑤ Hose Outlet
⑥ Threaded Neck Ring
⑦ Valve Body
⑧ Dip Tube Assembly
⑨ Hose Assembly
⑩ Spray Nozzle
⑪ Nozzle Holder
⑫ Plastic Skirt
⑬ Cannister (containing pressurised extinguishent)



Fire Safety Stick Environmental Statement

Manufacturing: Fire Safety Stick

• **Manufacturer -** The Fire Safety Stick is manufactured in Italy. The manufacturing company is fully certified to ISO9001:2015 for the management, design, and manufacture of certain products. However, they have not at this stage pursued certification to ISO14001:2015 (global standard for Environmental Management).

• **Components and materials** – The chemical ingredients for the resins are purchased from multinational companies (in Italy and Europe). The other components (aluminium tube, plastic handle, plastic end caps and striker caps) are sourced from reputable manufacturers from around the world and manufactured in accordance with international conventions.

We have appended a number of the ISO14001 certificates awarded to the manufacturers of the individual components for reference:

- The ingredients for the active agent resin follow REACH and ROHS regulations.
- The outer casing is made from aluminium, which is renowned for having a long lifespan and being infinitely recyclable, reducing the initial investment required for power during the production process.
- The plastic handle and end caps are composed of 100% Moplen Polypropylene. The Moplen PP grade has the lowest environmental impact compared to competitive plastics, with a 23% reduction in carbon emissions and a 71% reduction in water usage during production. Recycling information for these components is included in the section on disposal.
- The foam wadding, which acts as insulation and padding within the metal tube at the base is created from reconstituted chip foam
- The cardboard tube, which encases the active resin within the aluminium tube, is fully recycled cardboard.

• **Process** - The manufacturing process consists of mixing and curing the active agent resin and activator resin, then assembling with its component parts ready for shipping to various international distributors:

- The active agent resin is a polymerised mixture of Organic and Inorganic Salts that is formed, then blended and pressed into a single solid compound pellet.
- It is sealed in the metal casing with no environmental exposure. During this process there are no gases or other pollutants produced.

• **Power requirements** - The machinery used in the mixing process is electrically activated. Where possible, the manufacturing plant uses renewable energy sources, though this is controlled very much by the Italian energy market. Currently, Italy ranks third in Europe for both power consumption and generation from renewable resources and currently utilises 40% of its total power consumption from renewables.

Shipping to the UK

• **Transport efficiency** - For the UK market, the units are packaged in bulk without individual boxes, to maximise efficiency in shipping. Historically each unit was boxed and packaged in Italy prior to shipping to the UK. However, following a change in process to allow for packaging in the UK, the volume of shipments for the equivalent number of units has dropped by approximately 65%. Additionally, as demand has grown for the Fire Safety Stick in the UK alongside an increased capacity for local storage, we have been able to ensure even greater efficiencies in shipping, effectively reducing the carbon impact per unit.

• **Packaging -** The packaging for the UK is produced on FSC certified cardboard by UK printers. These are fully ISO9001 and ISO14001 certified. Once final assembly is completed in our UK warehouse, the units are shipped direct to the end users, using only fully recycled packing paper and fibreboard boxes, which in turn can be recycled by the end user.

Fire Safety Stick Environmental Statement

The Fire Safety Stick, in comparison to the traditional pressurised fire extinguishers, is much smaller and lighter. For example a 1kg Dry Powder extinguisher, which only has a discharge time of 7 seconds, weighs around 2.25kg, whereas the FSS50 Fire Safety Stick, which has a 50 second discharge time, weighs just 215g. Therefore, there are significant reductions in environmental impact during transportation across the life-cycle in terms of space saving, weight, and fuel costs.

Use

• **Lifespan** – The Fire Safety Stick has a tested shelf life of at least 15 years. As a comparison, traditional pressurised extinguishers typically only last for 5 years before replacement is required. This represents a significant reduction in Carbon Footprint associated with manufacture, distribution and disposal activities compared with traditional extinguishers.

• **Maintenance requirements** – Traditional pressurised extinguishers need to be professionally serviced each year, so the environmental impact of visits by fire safety technicians, plus the logistics of bringing any vehicle-mounted extinguishers to an inspection point also need to be considered as part of the Carbon Footprint of the traditional extinguisher. In comparison, the Fire Safety Stick does not need servicing by external organisations during its life-cycle. The recommended regular visual maintenance checks can easily be carried out by a responsible person within the customer's organisation, alongside other routine building or vehicle checks.

• **Discharge and residue** - When activated, the black "striking" resin is ignited and in doing so starts a controlled chemical, exothermic, reaction inside the aluminium tube, whereby the solid resin containing the alkali metal salt, Potassium Nitrate (KNO_3) is broken down into two key components. These are nitrogen gas (a safe, inert gas - 78% of our atmosphere is composed of nitrogen gas) and potassium free radicals K+.

The nitrogen gas creates a relatively low pressure aerosol, dispersing the potassium ions from the small aperture on the head of the tube. In addition, there is a very small amount of water vapour within the aerosol. Any other potentially toxic by-products which are also produced as a result of the chemical reaction and emitted within the aerosol are at levels so negligible that their levels are recorded as being not of any significance. By-products include carbon monoxide, at just 57 parts per million, nitrogen dioxide at less than 5 parts per million, particulates within the aerosol at just 8.5mg per cubic metre. The aerosol that comes out of the casing outlet reacts with the fire and the flames to chemically interrupt the chain of combustion: the potassium free radicals capture the oxygen generated by the combustion, thereby depriving the fire of oxygen and therefore extinguishing it.

At the end of the extinguishing process, the following is discharged to the atmosphere:

(a) Solid particles of Potassium (that have reacted with the Oxygen of the fire) having a granulometry between 3 to 4 microns (these particles are invisible at sight and heavier than air; they disperse in the air and tend to deposit on the ground);

(b) Nitrogen gas, an inert gas already in the air we breathe at 78%;

(c) Water vapour

The potential impact on the environment and users when using the Fire Safety Stick

(Full details are available on the accompanying Material Safety Data Sheet.)

- ODP Ozone Depletion Potential = Zero
- GWP Global Warming Potential = Zero
- ATL Atmospheric Lifetime = Zero
- Negligible toxicity
- Activation time: Immediate
- Electrostatic discharge: Zero
- Usability temperature: from -140° F to +320° F
- Usability humidity: up to 98% U.R.
- Granularity: from 2 to 4 microns
- Corrosiveness: Zero
- Steam: Zero
- Thermal shock: Zero
- Residue after use: Negligible
- Not dangerous to human or animals' health
- Storage temperature, which will allow safe activate ranges: -50°C to +80°C
- Environmentally safe
- The device is **NOT** pressurised.

FIRE SAFETY STICK

Fire Safety Stick Environmental Statement

In comparison, the table below outlines the environmental and health impacts from other commonly used fire extinguishers during their discharge:

Traditional Extinguisher Types	
Dry Powder	• **Environmental considerations:** The residue from dry powder extinguishers contains a significant amount of ammonium phosphates and sulphates. These are known pollutants if added to the water table, and so after discharge requires careful and considerate clean-up. The caustic nature of the residue may also cause damage to machinery and equipment, which may need to be replaced or professionally cleaned. • **User health considerations:** The chemicals in the discharge will irritate the skin and other mucous membranes. As a result, the powder can cause breathing difficulties if inhaled and will adversely affect the digestive tract.
Carbon Dioxide	• **Environmental considerations:** Carbon Dioxide (CO_2) is well-documented as being environmentally unfriendly, so although the role of CO_2 extinguishers will be relatively minor in a global context, they would still be a net contributor to greenhouse gases in the environment. • **User health considerations:** Risk of asphyxiation if used in confined spaces, as the discharged CO_2 rapidly replaces breathable oxygen at close quarters. There is also a risk of 'cold burns' if the user holds the extinguisher by the horn.
Water	• **Environmental considerations:** Although with little or no environmental impact on discharge, it should be remembered that water fire extinguishers are only suitable for Class A fires and therefore, for most fire risks, would need to be supplemented with an alternative extinguisher.
Foam	• **Environmental considerations:** Most types of foam that are used as an additive within a fire extinguisher can have environmental impact. These include de-oxygenation of water and toxicity to aquatic life, even risking drinking water supplies if allowed to enter the water table. Occasionally, some compounds in them do not break down in the environment and may then be absorbed into plants and animals.

Fire Safety Stick Environmental Statement

Accidental discharge is an all-too common event with traditional pressurised fire extinguishers. This can occur when an extinguisher is knocked or dropped, which then leads to release of its contents over a significant area. Accidental or malicious discharge will likely damage and destroy valuable stock, machinery, or other items within the vicinity, requiring careful and environmentally considered clean-up.

The Fire Safety Stick is not pressurised and therefore presents no such risk. It is completely resilient to any impact and the only method of activating it is by the deliberate striking of the bottom end cap with the activator resin, which is positioned under a protective cap at the top of the unit. The only other method of activation would be if the unit was exposed to temperatures of more than 300°C for a period of time – this is the temperature of a fire. Even if the unit were to be activated maliciously, the discharge would not cause any damage or adverse health effects to anyone in the vicinity.

Disposal

It's important to note that once a traditional extinguisher has been used, no matter how much volume of gas or media has been discharged, the extinguisher should be sent away for recharging or refilling. This adds to the Carbon Footprint of the traditional extinguisher. In comparison, the Fire Safety Stick is activate once and recycle.

Once used, the remains of the Fire Safety Stick can be easily and ecologically disposed of using readily available recycling methods. The active agent resin, as well as the black activating resin, would have completely chemically reacted and would no longer be present in or on the unit.

All that would remain of the unit would be:

• **An empty aluminium tube** – which can be washed by the user to remove any slight residual debris and then suitably recycled through any readily available aluminium / steel recycling routes. (It is worth noting that approximately 75% of all aluminium ever mined worldwide is still in circulation.)

• **Cardboard tube** - This is the outer casing of the internal resin. After the resin has burnt away during the discharge process, the cardboard tube remains but this can easily be separated by the end user and recycled at the domestic level.

• **Plastic handle and top cap** – These are composed of 100% Moplen Polypropylene, and can be accepted for recycling at most recycling centres. The striker cap is also composed of Moplen PP, however it also contains a small amount of the red phosphorus which is used to activate the FSS. Although only a very small amount, we would suggest its easy removal to ensure it doesn't cause any contamination during its recycling process.

• **Insulation padding** - this wadding, composed of recycled chip foam, which has a volume of around 7-8 cm^3, can potentially be recycled by some UK domestic council services, though realistically with such a small item, it is less crucial to be recycled and so will typically be placed into domestic waste.

• **Original packaging** – fully recyclable fibreboard, with no plastics incorporated to ensure no further contamination during the recycle process. The packaging is supplied and printed within the UK to ISO9001 and ISO14001 specifications and the original pulp is sourced from responsibly managed forests.

• **Shipping packaging** - used in the supply chain to distributors is 100% recycled fibreboard boxes and recycled packing paper. These materials are also fully suitable for further recycling by the recipient.

For comparison purposes, it's worth noting that a traditional pressurised extinguisher can't be directly recycled by the end user, but would need to be professionally disposed of as there would still likely be hazardous contents held under pressure within the metal container. The most likely disposal route for the finished cannister would be as scrap metal. This further adds to the overall Carbon Footprint of the traditional extinguisher, making Fire Safety Stick the

Fire Safety Stick Environmental Statement

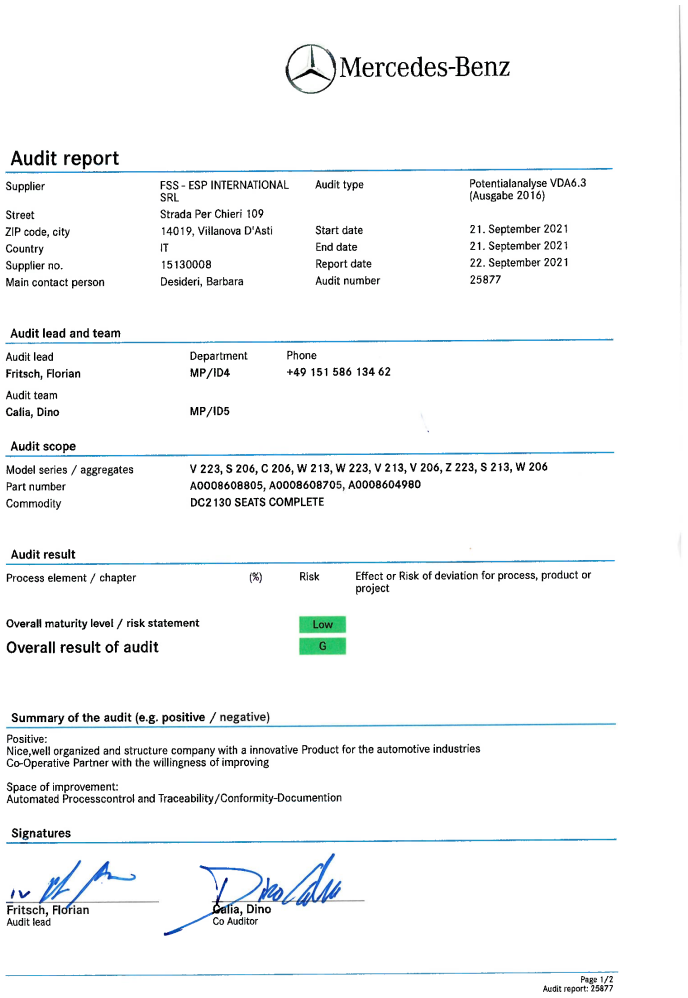
Environmental Appraisal by other organisations

The Fire Safety Stick fire extinguisher is already supplied around the world to many leading organisations, including various vehicle manufacturers, such as Honda, BMW and Daimler Benz (parent company to Mercedes-Benz). For the FSS manufacturers to be considered as a parts supplier to Mercedes-Benz, they had to be extensively reviewed to ensure they meet VDA6.3. This is a very detailed and comprehensive audit process used by the German vehicle manufacturing industry, which covers many aspects including the environmental impact from third party parts manufacturers.

The manufacturer of the Fire Safety Stick passed this audit – along with rigorous fire suppression performance and user safety tests – and was fully approved.

In addition, following additional extensive auditing by all relevant authorities, the Fire Safety Stick (under different brand name) is now being rolled-out in Indonesia, where it is it been made compulsory for all vehicles to carry the product.

Meanwhile, here in the UK, it has been also heavily reviewed by many leading authorities and is currently in the process of being rolled out in various pilot schemes by various departments of the emergency services, ministry of defence as well as some leading commercial organisations for their vehicle fleets.



Mercedes-Benz

Audit report

Supplier	FSS - ESP INTERNATIONAL SRL	Audit type	Potentialanalyse VDA6.3 (Ausgabe 2016)
Street	Strada Per Chieri 109		
ZIP code, city	14019, Villanova D'Asti	Start date	21. September 2021
Country	IT	End date	21. September 2021
Supplier no.	15130008	Report date	22. September 2021
Main contact person	Desideri, Barbara	Audit number	25877

Audit lead and team

Audit lead	Department	Phone
Fritsch, Florian	MP/ID4	+49 151 586 134 62
Audit team		
Calia, Dino	MP/ID5	

Audit scope

Model series / aggregates	V 223, S 206, C 206, W 213, W 223, V 213, V 206, Z 223, S 213, W 206
Part number	A0008608805, A0008608705, A0008604980
Commodity	DC2130 SEATS COMPLETE

Audit result

Process element / chapter	(%)	Risk	Effect or Risk of deviation for process, product or project
Overall maturity level / risk statement		Low	
Overall result of audit		G	

Summary of the audit (e.g. positive / negative)

Positive:
Nice,well organized and structure company with a innovative Product for the automotive industries
Co-Operative Partner with the willingness of improving

Space of improvement:
Automated Processcontrol and Traceability/Conformity-Documention

Signatures

Fritsch, Florian
Audit lead

Calia, Dino
Co Auditor

Page 1/2
Audit report: 25877

Summary

As you can see, the environmental impact of the Fire Safety Stick throughout its life-cycle - from manufacture, transportation, use and disposal is extremely low. Without doubt, it creates significantly less impact to the environment when compared to traditional pressurised extinguishers.

Fire Safety Stick Environmental Statement

Additional Information, available upon request:

The FSS extinguishing devices have been tested and are in conformity with the applicable requirements of the following listed Standards & Directives:

- Legislative Decree No. 206/2005 (Consumer Code)
- 2001/95/CE dated 3.12.2001 (General Product Safety Directive)
- L.C. dated 13 March 1987 n. 4936/4115/3 (Portable Fire extinguishers)
- R.I.N.A. Homologation (Italian Naval Registry): Extinguishing device for pleasure yacht.
- Ministerial Decree 8/3/1985 (Directive on urgent measures for the prevention of fires)
- Directive 93/15/EEC 5 April 1993 on the harmonization of the provisions relating to the placing on the market and supervision of explosives for civil uses.
- SANS 1107:2014 Disposable portable condensed aerosol fire extinguishers (in accordance with procedures of the SABS Standards Division, in compliance with annex 3 of the WTO/TBT agreement).
- ISO 4582 (Plastics – Determination of changes in colour and variations in properties after exposure to daylight under glass, natural weathering, or laboratory light sources)
- SANS 15779:2012/ISO 15779:2011 Condensed aerosol fire extinguishing systems (Requirements and test methods for components and system design, installation, and maintenance – General requirements).

The Fire Safety Stick is imported into UK and Republic of Ireland solely by:
Argento Global Solutions Ltd,
Unit 8 Progress Park,
Ribocon Way,
Luton,
Bedfordshire
LU4 9UR
Telephone: +44 (0)1582 879529
Email: info@firesafetystick.com

It is then sold to end users through a network of approved distributors. Any further information required may be sourced direct from the UK and Republic of Ireland importers.

ZERTIFIKAT ◆ CERTIFICATE ◆ 認證證書 ◆ СЕРТИФИКАТ ◆ CERTIFICADO ◆ CERTIFICAT

Italia

CERTIFICATO

Nr. 50 100 13212 Rev.004

SI ATTESTA CHE / *THIS IS TO CERTIFY THAT*

IL SISTEMA DI GESTIONE PER LA QUALITÀ DI
THE QUALITY MANAGEMENT SYSTEM OF

ESP INTERNATIONAL S.r.l.

SEDE LEGALE:
REGISTERED OFFICE:

STRADA FARNESIANA 47 PRESSO STUDIO SOZZI
IT - 29122 PIACENZA (PC)

SEDE OPERATIVA:
OPERATIONAL SITE:

STRADA STATALE CHIERI 109
IT - 14019 VILLANOVA D'ASTI (AT)

È CONFORME AI REQUISITI DELLA NORMA
HAS BEEN FOUND TO COMPLY WITH THE REQUIREMENTS OF

UNI EN ISO 9001:2015

QUESTO CERTIFICATO È VALIDO PER IL SEGUENTE CAMPO DI APPLICAZIONE
THIS CERTIFICATE IS VALID FOR THE FOLLOWING SCOPE OF APPLICATION

Progettazione e fabbricazione di inibitori di fiamma (IAF 18)

Design and manufacture of flame inhibitors *(IAF 18)*

ACCREDIA
L'ENTE ITALIANO DI ACCREDITAMENTO
SGQ N° 049A

Membro degli Accordi di Mutuo Riconoscimento
EA, IAF e ILAC
Signatory of EA, IAF and ILAC Mutual
Recognition Agreements

Per l'Organismo di Certificazione
For the Certification Body
TÜV Italia S.r.l.

Andrea Coscia
Direttore Divisione Business Assurance
Business Assurance Division Manager

Validità / *Validity*

Dal / From: **2021-10-19**

Al / To: **2024-10-12**

Data emissione / *Issuing Date*

2021-10-19

PRIMA CERTIFICAZIONE / *FIRST CERTIFICATION:* 2015-10-12

"LA VALIDITÀ DEL PRESENTE CERTIFICATO È SUBORDINATA A SORVEGLIANZA PERIODICA A 12 MESI E AL RIESAME COMPLETO DEL SISTEMA DI GESTIONE AZIENDALE CON PERIODICITÀ TRIENNALE"
"THE VALIDITY OF THE PRESENT CERTIFICATE DEPENDS ON THE ANNUAL SURVEILLANCE EVERY 12 MONTHS AND ON THE COMPLETE REVIEW OF COMPANY'S MANAGEMENT SYSTEM AFTER THREE-YEARS"

UK CA DECLARATION OF CONFORMITY

THE MANUFACTURER: **ESP INTERNATIONAL SRL**
Strada Per Chieri, 109
14019 Villanova d'Asti, (AT) - ITALY
Tel. +39.0141.945628 Fax +39.0141.946671
Web: www.fss-esp.com
Cod. Fiscale e P.IVA n° 09141570961
Rea n° PC-185537

Declares under its responsibility that the product(s) below:

NAME	**PORTABLE CONDENSED AEROSOL EXTINGUISHING DEVICE ESP 004 – ESP 005**
OEM	**ESP INTERNATIONAL S.r.l.**
FIRST YEAR OF COMMERCIALIZATION	**2005**

have been tested and are in conformity with the applicable requirements of the following listed Standards & Directives:

- Legislative Decree No. 206/2005 (Consumer Code)
- 2001/95/CE dated 3.12.2001 (General Product Safety Directive)
- L.C. dated 13 March 1987 n. 4936/4115/3 (Portable Fire extinguishers)
- R.I.N.A. Homologation (Italian Naval Registry): Extinguishing device for pleasure yacht.
- Ministerial Decree 8/3/1985 (Directive on urgent measures for the prevention of fires)
- Directive 93/15/EEC 5 April 1993 on the harmonization of the provisions relating to the placing on the market and supervision of explosives for civil uses
- Classified Non-Exploding as per Ministerial Decree 04/04/1973 by Homeland Security 557/PAS.7317-XV.J.(3766) (Prevention and monitoring, possession of illegal fireworks and classified as non-exploding)
- SANS 1107:2014 Disposable portable condensed aerosol fire extinguishers (in accordance with procedures of the SABS Standards Division, in compliance with annex 3 of the WTO/TBT agreement).
- ISO 4582 (Plastics – Determination of changes in color and variations in properties after exposure to daylight under glass, natural weathering, or laboratory light sources)
- SANS 15779:2012/ISO 15779:2011 Condensed aerosol fire extinguishing systems (Requirements and test methods for components and system design, installation, and maintenance – General requirements)

The Manufacturer prohibits the use of the product(s) in a manner contrary to what is stated in the user instructions.

The referenced person c/o ESP INTERNATIONAL SRL is Mr. Enzo Perna, , Quality Mgr..

REF. #: ESP21 All.M-4.2-2

Ezio Testa /CEO and Legal Representative

Villanova, 1 July, 2021

CE DECLARATION OF CONFORMITY

THE MANUFACTURER: **ESP INTERNATIONAL SRL**
Strada Per Chieri, 109
14019 Villanova d'Asti, (AT) - ITALIA
Tel. +39.0141.945628 Fax +39.0141.946671
Web: www.fss-esp.com
Cod. Fiscale e P.IVA n° 09141570961
Rea n° MI- 2071346

Declares under its responsibility that the product(s) below:

NAME	**FIRE SUPPRESSANT FLAME INHIBITOR ESP 004 – ESP 005**
OEM	**ESP INTERNATIONAL S.r.l.**
FIRST YEAR OF COMMERCIALIZATION	**2005**

have been tested and are in conformity with the applicable requirements of the following listed Standards & Directives:

- Legislative Decree No. 206/2005 (Consumer Code)
- 2001/95/CE dated 3.12.2001 (General Product Safety Directive)
- L.C. dated 13 March 1987 n. 4936/4115/3 (Portable Fire extinguishers)
- R.I.N.A. Homologation (Italian Naval Registry): Extinguishing device for pleasure yacht. Fire class 8B – C; 13B – C.
- Ministerial Decree 8/3/1985 (Directive on urgent measures for the prevention of fires)
- Directive 93/15/EEC 5 April 1993 on the harmonization of the provisions relating to the placing on the market and supervision of explosives for civil uses
- Classified Non-Exploding as per Ministerial Decree 04/04/1973 by Homeland Security 557/PAS.7317-XV.J.(3766) (Prevention and monitoring, possession of illegal fireworks and classified as non-exploding)

The Manufacturer prohibits the use of the product(s) in a manner contrary to what is stated in the user instructions.

The referenced person c/o ESP INTERNATIONAL SRL is Mr. Enzo Perna, , Quality Mgr..

REF. #: ESP15Ed.01.All.4

Ezio Testa /CEO and Legal Representative

Villanova, 30.9.2015

CERTIQUALITY

CERTIFICATO n. *CERTIFICATE No* **14367**

CISQ is a member of IQNet
THE INTERNATIONAL CERTIFICATION NETWORK
www.iqnet-certification.com

IQNet, the association of the world's first class certification bodies, is the largest provider of management System Certification in the world. IQNet is composed of more than 30 bodies and counts over 150 subsidiaries all over the globe.

SI CERTIFICA CHE L'ORGANIZZAZIONE
WE HEREBY CERTIFY THAT THE ORGANIZATION

BAKELITE ITALIA SPA

For information concerning the validity of the certificate, you can visit the site www.certiquality.it

The validity this certificate depends on annual audit and on a complete review every three years of the Management System.

IT - 21058 SOLBIATE OLONA (VA) - VIA MAZZINI 104

NEI SEGUENTI SITI / *IN THE FOLLOWING SITES*

IT - 21058 SOLBIATE OLONA (VA) - VIA MAZZINI 79 / 104

HA ATTUATO E MANTIENE UN SISTEMA DI GESTIONE AMBIENTE CHE E' CONFORME ALLA NORMA
HAS IMPLEMENTED AND MAINTAINS A ENVIRONMENT MANAGEMENT SYSTEM WHICH COMPLIES WITH THE FOLLOWING STANDARD

UNI EN ISO 14001:2015

PER LE SEGUENTI ATTIVITA' / *FOR THE FOLLOWING ACTIVITIES* SETTORE *CODE* **IAF 12**

Sviluppo, assistenza tecnica e produzione di resine fenoliche, novolacche (in polvere e soluzione), resoli (in soluzione acquosa e alcolica) tramite reazioni di policondensazione, micronizzazione esamina, produzione formaldeide da metanolo.
Development, technical assistance and production of phenolic resins, novolaks (in powder and solution), resols (in water or alcoholic solution) by polycondensation reactions, micronization examines, production of formaldehyde from methanol.

Certificazione rilasciata in conformità al Regolamento Tecnico ACCREDIA RT 09

IL PRESENTE CERTIFICATO E' SOGGETTO AL RISPETTO DEL REGOLAMENTO PER LA CERTIFICAZIONE DEI SISTEMI DI GESTIONE
THE USE AND THE VALIDITY OF THE CERTIFICATE SHALL SATISFY THE REQUIREMENTS OF THE RULES FOR THE CERTIFICATION OF MANAGEMENT SYSTEMS

PRIMA EMISSIONE *FIRST ISSUE*	*17/11/2006*
DATA DELIBERA *DECISION DATE*	*20/04/2021*
DATA SCADENZA *EXPIRY DATE*	*20/04/2024*
EMISSIONE CORRENTE ISSUE DATE	*28/02/2022*

CERTIQUALITY S.r.l. - IL PRESIDENTE
Via G. Giardino 4 - 20123 MILANO (MI) - ITALY

ACCREDIA L'ENTE ITALIANO DI ACCREDITAMENTO
SGA n. 001 D
Membro degli Accordi di Mutuo riconoscimento EA, IAF e ILAC.
Signatory of EA, IAF and ILAC Mutual Recognition Agreements.

C02 ED 02 200

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www.cisq.com
CISQ è la Federazione Italiana di Organismi di Certificazione dei sistemi di gestione aziendale.
CISQ is the Italian Federation of management system Certification Bodies.

THE INTERNATIONAL CERTIFICATION NETWORK

CERTIFICATE

CISQ/CERTIQUALITY S.r.l.
has issued an IQNet recognised certificate that the organization:

BAKELITE ITALIA SPA

IT - 21058 SOLBIATE OLONA (VA) - VIA MAZZINI 104
for the following scope

Development, technical assistance and production of phenolic resins, novolaks (in powder and solution), resols (in water or alcoholic solution) by polycondensation reactions, micronization examines, production of formaldehyde from methanol.

has implemented and maintains a
Environmental Management System
which fulfills the requirements of the following standard
ISO 14001:2015

Issued on: **2021-04-20**
First issued on: **2006-11-17**
Expires on: **2024-04-20**

This attestation is directly linked to the IQNet Partner's original certificate and shall not be used as a stand-alone document

Registration number: **IT-56014**

Alex Stoichitoiu
President of IQNET

Ing. Mario Romersi
President of CISQ

IQNet Partners*:
AENOR *Spain* AFNOR Certification *France* APCER *Portugal* CCC *Cyprus* CISQ *Italy*
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* The list of IQNet partners is valid at the time of issue of this certificate. Updated information is available under www.iqnet-certification.com

Certificato

La SQS attesta che l'organizzazione di seguito indicata dispone di un sistema di gestione conforme ai requisiti della base normativa menzionata.

Ilario Ormezzano – SAI S.r.l.
Via Cavour, 120
13894 Gaglianico (BI)
Italia

Campo di applicazione

Distribuzione, produzione e miscelazione di prodotti chimici per settori farmaceutico, alimentare, tessile e meccanico, pet food e cosmesi.

Base normativa

ISO 14001:2015 Sistema di gestione ambientale

No. di reg. 52591

Validità 05.02.2021 – 04.02.2024
Emissione 05.02.2021

A. Grisard, Presidente SQS

F. Müller, CEO SQS

Associazione Svizzera per Sistemi
di Qualità e di Management (SQS)
Bernstrasse 103, 3052 Zollikofen, Svizzera

sqs.ch

Swiss Made

Partner of IQNet

4006_4/Giugno 2019/Versione 2.0

Mercedes-Benz

Audit report

Supplier	FSS - ESP INTERNATIONAL SRL	Audit type	Potentialanalyse VDA6.3 (Ausgabe 2016)
Street	Strada Per Chieri 109		
ZIP code, city	14019, Villanova D'Asti	Start date	21. September 2021
Country	IT	End date	21. September 2021
Supplier no.	15130008	Report date	22. September 2021
Main contact person	Desideri, Barbara	Audit number	25877

Audit lead and team

Audit lead	Department	Phone
Fritsch, Florian	**MP/ID4**	**+49 151 586 134 62**
Audit team		
Calia, Dino	**MP/ID5**	

Audit scope

Model series / aggregates	**V 223, S 206, C 206, W 213, W 223, V 213, V 206, Z 223, S 213, W 206**
Part number	**A0008608805, A0008608705, A0008604980**
Commodity	**DC2130 SEATS COMPLETE**

Audit result

Process element / chapter	(%)	Risk	Effect or Risk of deviation for process, product or project

Overall maturity level / risk statement Low

Overall result of audit G

Summary of the audit (e.g. positive / negative)

Positive:
Nice,well organized and structure company with a innovative Product for the automotive industries
Co-Operative Partner with the willingness of improving

Space of improvement:
Automated Processcontrol and Traceability/Conformity-Documention

Signatures

Fritsch, Florian
Audit lead

Calia, Dino
Co Auditor