Company profile

VAMP TECH

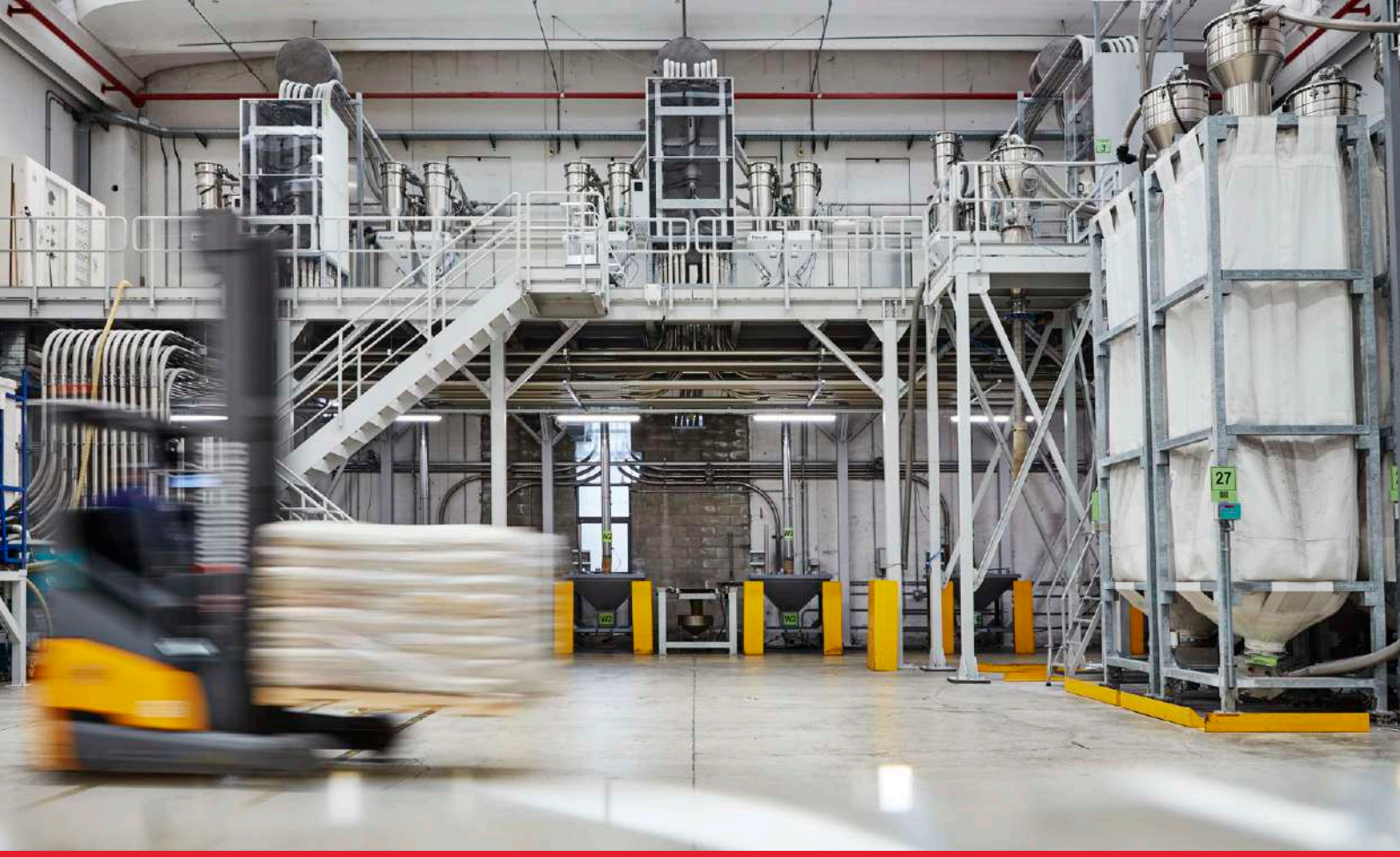
Your Compounding Partner

Your Compounding Partner

Piero Eigenmann, president and CEO of VAMP TECH

The company

Established in 1988, VAMP TECH was founded with the goal of becoming a distinguished specialist in flame retardant compounds. Since its inception, the company has developed robust chemical expertise and gained a comprehensive understanding of the market's evolving needs. With a dedicated R&D department that has formulated over 4000 customized products, VAMP TECH is well-equipped to provide tailored solutions that meet the most demanding requirements in thermoplastic applications.



150

EMPLOYEES

26 MT/Y

GLOBAL CAPACITY

35

DIRECT SALES COUNTRIES

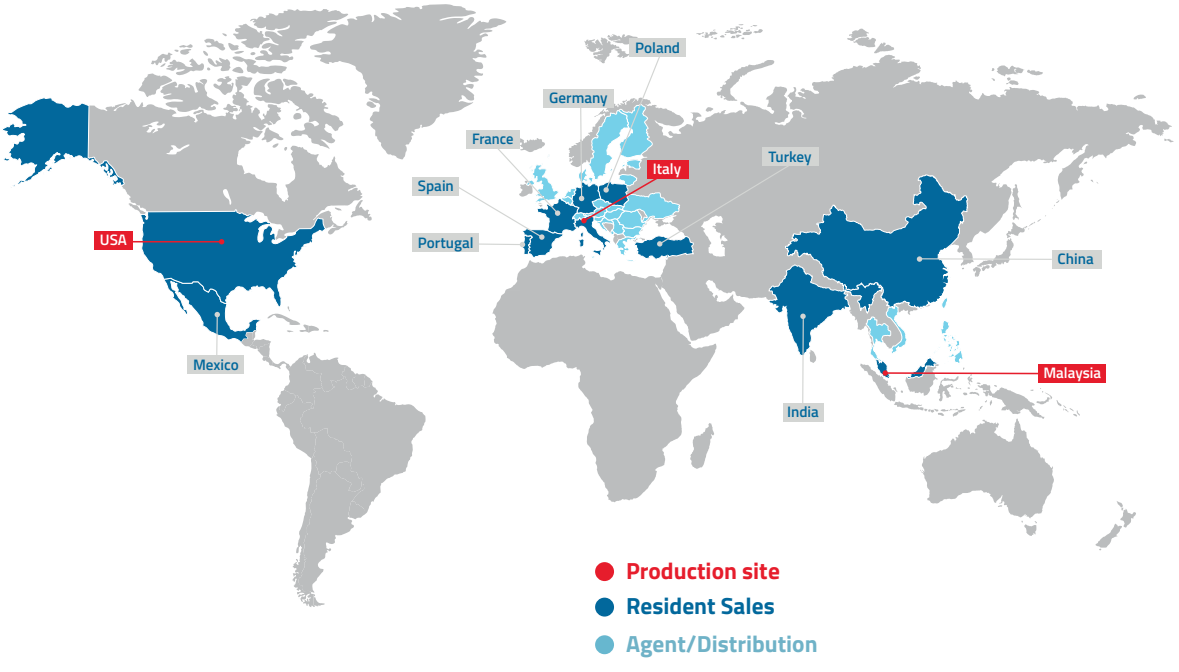
4000 +

ACTIVE FORMULATIONS

The company

Customers benefit from a diverse product range complemented by a distribution portfolio sourced from leading producers. This strategic combination enhances our capacity to supply customized solutions. Today, our global presence is established through three distinct legal entities: Vamp Tech SpA, Vamp Tech Malaysia, and Vamp Tech Iberica. The company can produce its portfolio in Europe, Asia and North America.

Over the years, the group has experienced significant expansion. VAMP TECH's footprint now spans more than 35 countries, facilitated by direct sales, a global network of technical service specialists, local agents, and distributors. This extensive international network positions VAMP TECH as a reliable partner for major global customers seeking trustworthy solutions.



Our Values

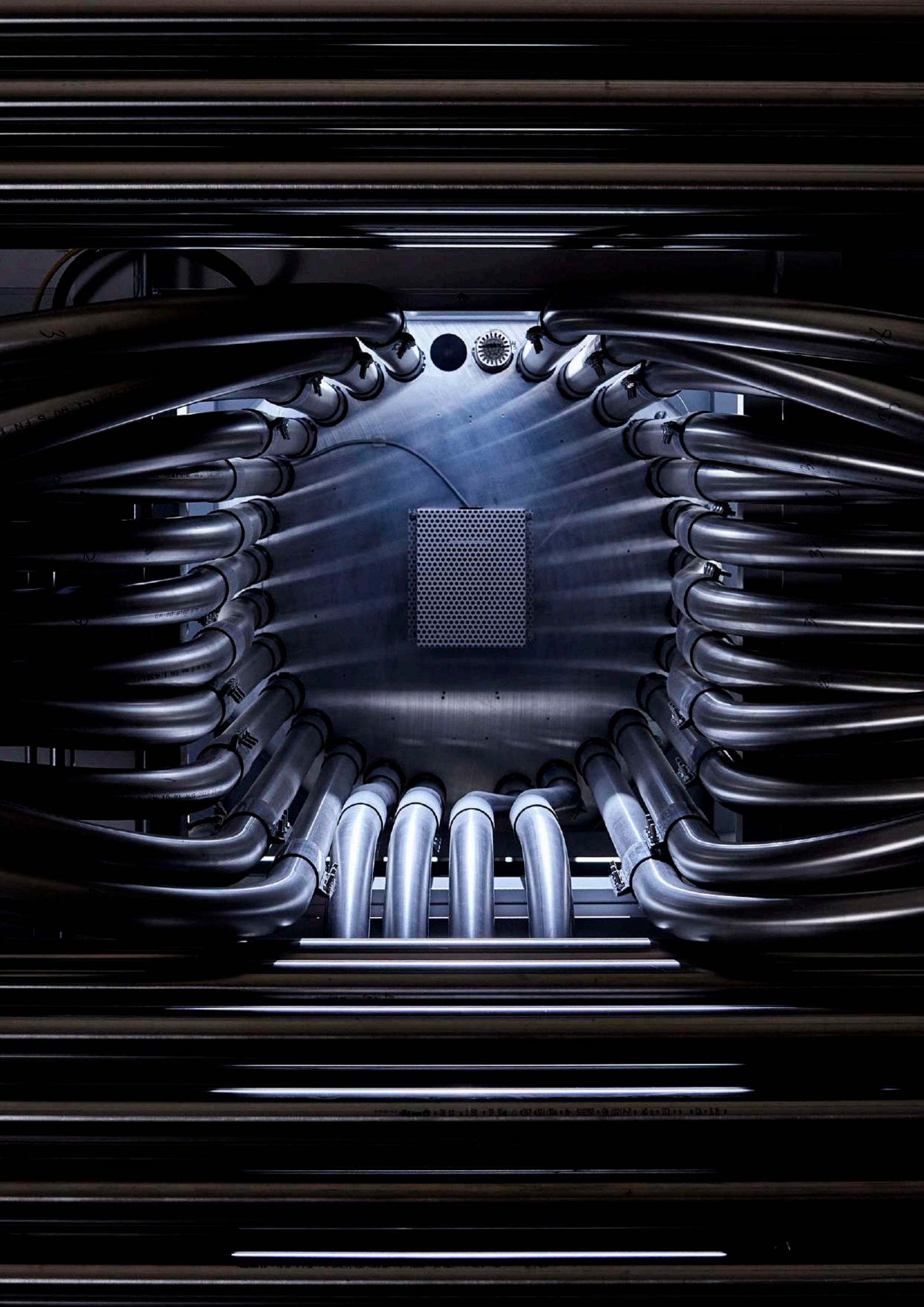
VAMP TECH is committed to fundamental values that reflect our corporate identity. Our reliability translates into customized services, flexibility, and timely responses on an international scale. Innovation and quality are ensured by our in-house R&D laboratory and product certifications. We place people at the center, practicing co-engineering with customers and valuing the know-how of our team.

Reliability

People

Innovation

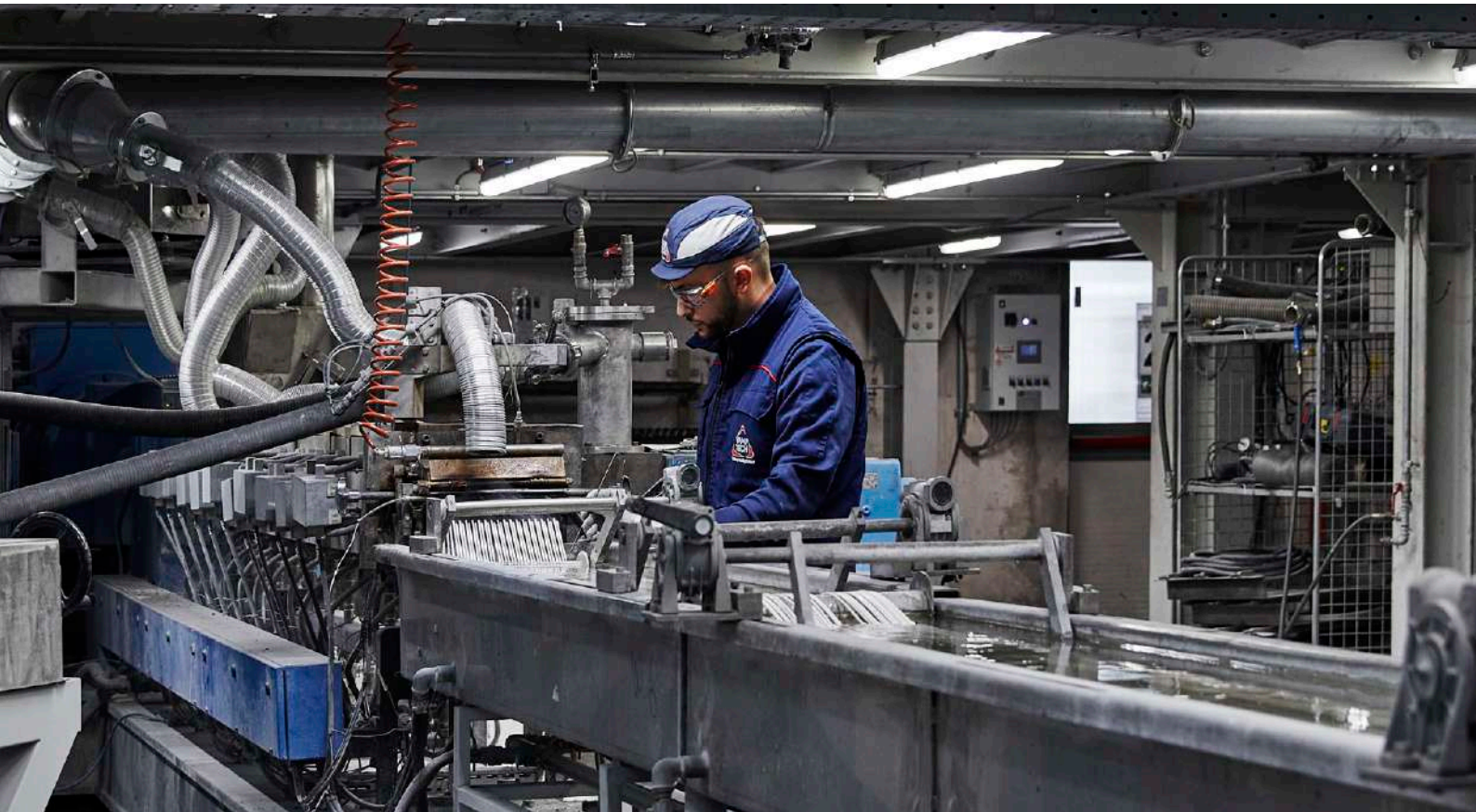
Laying the foundations for innovative solutions that will shape tomorrow



Manufacturing

Our production flow is fully automated and integrated in all its departments, from customer orders, through product packaging and shipment of the goods.
This layout allows us to quickly adapt to market fluctuation and fulfill customer requests. Our manufacturing plant has nine twin-screw extrusion lines on a total surface of 14.500 square meters of covered facilities.

VAMP TECH's production sites overall can produce up to 26.000 T/Y of flame retardant and high technical engineering compounds, 85% of the total throughput is solely dedicated to flame retardant products.



Our manufacturing process improvements hinge on innovation, flexibility, and customer-centricity.

Continuous research to improve flame retardant performance

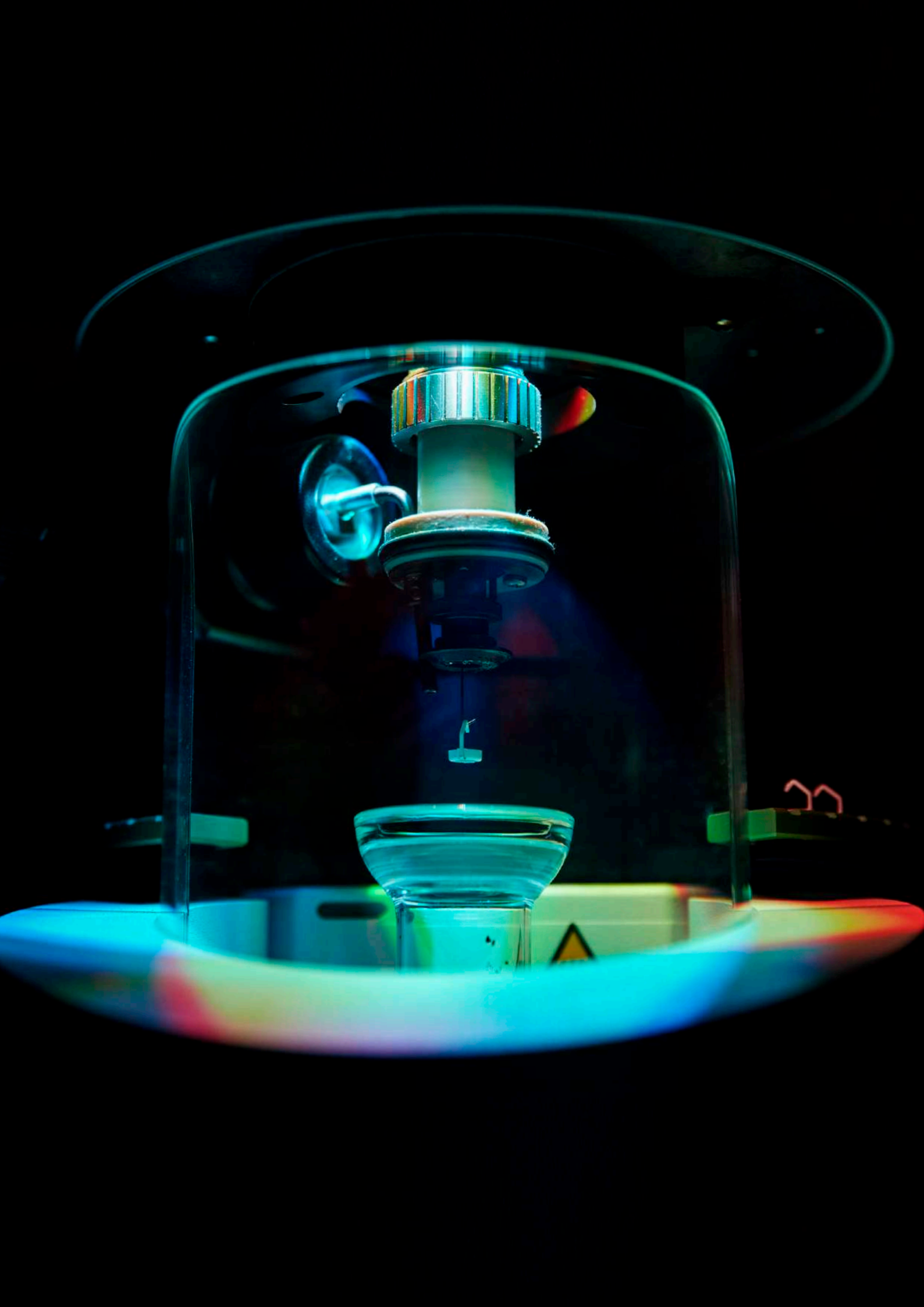
R&D Center

Our Research and Development Center uses high-tech tools to create tailor-made products. Over the years, leveraging its robust expertise, our R&D has successfully created compounds and formulations utilizing a diverse range of polymers: PP, PA6, PA66, ABS, PBT, PC, PS, HDPE, POM and high-temperature polymers such as PPE, PPS, PPA, and PEEK.

The heart of our laboratories lies in flame retardant characterization, showcasing excellence in terms of equipment (GWT, CTI, UL 94, LOI, etc.) and in the collective knowledge of our team. Other instruments are dedicated to comprehending the basic chemical structure of polymers and additives, like DSC, TGA, and FT-IR.
Consequently, for each base resin, we have developed formulations incorporating all types of flame retardants available on the market: halogenated, halogen-free, intumescent, red phosphorous, and inorganic.

Moreover, to test the performance of all raw materials, the lab is equipped with two extrusion lines and four injection molding machines. This setup efficiently enhances the capability to meet customer demands and increase the time-to-market of our developments.

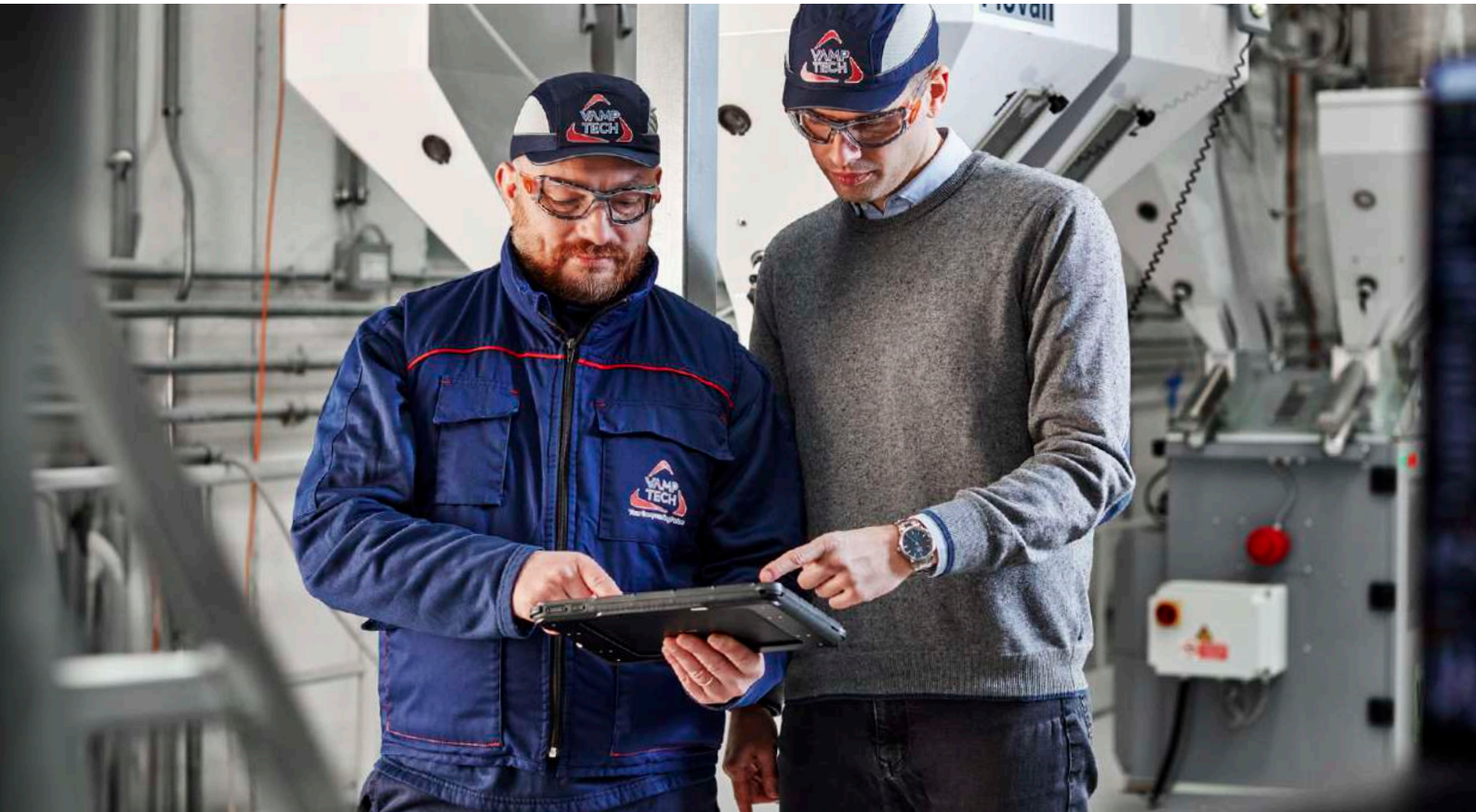
Delivering customized solutions shaped by our knowledge, experiences, and vision



Technical service

VAMP TECH is a prominent technical compounding manufacturer dedicated to delivering superior compounds and committed to providing extensive technical support and services. Our team of experts follows a customer-centric approach, providing comprehensive guidance throughout product development. We collaborate closely with customers to optimize the performance of our products, ensuring ongoing commitment beyond the initial purchase.

Our technical support team collaborates closely with clients, facilitating the development of applications that optimize the performance of our products. From initial prototyping to large-scale production, guidance is offered at every stage.



Customer service

VAMP TECH's customer service goes above expectations, offering global support tailored to different regions. Whether customers operate locally or internationally, we ensure reliability and customization while minimizing language and cultural barriers. Our global presence enables seamless communication, providing a superior experience in the customer's preferred language.

Our products

With over 35 years of experience, VAMP TECH, has established itself as a leading provider of innovative solutions for industries that demand high safety standards in many different markets worldwide (electrical and electronics, household appliances, e-mobility…). We can support project development thanks to the high level of flexibility and technical knowledge of polymer formulation, especially when high customization is required, such as tailored-made colors or specific aesthetic requirements. We offer a portfolio of flame retardant, special, and technical compounds, demonstrating our commitment to sustainability through the incorporation of environmentally conscious solutions formulated with recycled and renewable raw materials.

Flame retardant compounds

Flame retardant manufacturing is VAMP TECH's specialty. Our flame-retardant portfolio includes hundreds of formulations covered by more than 100 UL Yellow cards. We can offer various grades that satisfy the most challenging flame retardancy performance test: V0 at thin thicknesses, 5VA, GWIT, CTI, and conformity declarations.

Special compounds

VAMP TECH can also offer a portfolio of special compounds based on a wide range of resins modified to obtain thermal or electrical conductivity or improve tribological quality and performance. Our Special compounds can also be offered in flame-retardant versions.

Technical compounds

VAMP TECH's high production flexibility and extensive experience in the field also enable us to offer a wide range of technical compounds, mainly custom-made formulas developed following specific customer requests, such as mineral and glass fiber reinforcements, improved dimensional stability, UV stabilization at high temperatures and wide viscosity range.

Certifications

VAMP TECH's standout feature lies in the repeatable performance of its products, substantiated by prestigious product certifications. The UL Yellow Card, particularly esteemed for its flammability rating, is the most highly regarded certification.

We boast a portfolio of over 100 UL Yellow Cards-certified products, and our R&D Center consistently endeavors to expand this number. Additionally, pivotal certifications such as EN 45545, NFPA 130, VDE, ECE R118, and NSF have played a crucial role in facilitating the entry of our products into challenging markets.

Sustainable solutions

VAMPGREEN

DENIGREEN

At VAMP TECH, we are contributing to the latest environmental challenges by offering an extensive portfolio of sustainable compounds developing flame retardants (VAMPGREEN) and high technical solutions (DENIGREEN) using a wide range of sustainable polymers, maintaining the same quality and performance as the grades obtained from mineral sources. Some of our VAMPGREEN grades based on PP, PA 6, and PA 66 obtained the UL 94 Flammability certification.

We develop formulations starting from a wide range of resins coming from different sustainable sources:

- Mechanically recycled polymers from post-consumer waste (PCR) or post-industrial waste (PIR).
- Polymers obtained by chemical recycling.
- Polymers obtained from Biobased & non-mineral feedstocks.

Our portfolio is constantly updated following new market needs and trends. Our Technical Service Team can support the development of new sustainable ideas by defining the best grade and creating new custom formulas to fit the application better.

VAMPGREEN

VAMPGREEN™ SF
polymers obtained from chemical recycling, bio-based and non-mineral feedstock

GRADE	Base Polymer	minimum sustainable content	Flammabilty rating	GWIT	Density [g/cm³]	Tensile modulus [MPa]	Tensile Strength [MPa]	Elongation @ break [%]	Water absortion [%]
VAMPGREEN 51 30G SF V0 28 04	PA5.10 30% GF	40%	V0 (0.8mm)	-	1.42	10000	115	2.5	0.5
VAMPGREEN J 30G SF V0 28 02	PA10T 30% GF	20%	V0 (0.8mm)	775/1-2	1.42	10500	115	1.8	-
VAMPGREEN J1 30G SF V0 28 04	PA10.10 30% GF	40%	V0 (0.8mm)	-	1.42	9500	110	3.0	0.5
VAMPGREEN N1 30G SF V0 28 02	PA6.10 30%GF	20%	V0 (0.8mm)	-	1.42	10000	110	2.5	0.6
VAMPGREEN Y 2530 V0 P M	PA66 25% GF	50%	V0 (0.8mm)	-	1.34	8000	125	2.4	0.9
VAMPGREEN Y 2528 V0 GW4	PA66 25% GF	40%	V0 (0.4mm)	775/1-2	1.42	9000	130	2.3	0.9
VAMPGREEN B 30G SF V0 26 03	PBT 30% GF	30%	V0 (0.8mm)	-	1.59	10000	125	2.5	-

VAMPGREEN

VAMPGREEN™ RC
mechanically recycled polymers from PCR & PIR waste

	GRADE	Base Polymer	Source	Minimum Recycled content	Flammabilty rating	GWIT	Density [g/cm³]	Tensile modulus [MPa]	Tensile Strength [MPa]	Elongation @ break [%]
	VAMPGREEN A 00U RC V0 26 2S 05	ABS unfilled	PCR Black	50%	V0 (1.6mm)	-	1.19	2500	40	> 5
	VAMPGREEN P 00U RC V0 28 1S 06 E	PP unfilled	PIR	60%	V0 (1.6mm)	775/1-2	1.05	1500	18	> 30
YELLOW CARD	VAMPGREEN P 00U RC V0 28 1S 07	PP unfilled	PIR	70%	V0 (1.6mm)	775/1-2	1.03	1600	20	> 50
	VAMPGREEN P 00U RC V0 28 2S 07	PP unfilled	PCR	70%	V0 (3.2mm)	775/1-2	1.07	1800	18	> 30
	VAMPGREEN P 00U RC V2 26 1S 08 C NF	PP unfilled	PIR	80%	V2 (0.8mm)	775/1-2	0.94	1200	25	> 50
	VAMPGREEN P 25G RC V0 28 2S 04	PP 25% GF	PCR	40%	V0 (1.6mm)	775/1-2	1.29	6000	55	> 2.5
	VAMPGREEN P 30G RC V0 28 1S 04 A	PP 30% GF	PIR	40%	V0 (1.6mm)	775/1-2	1.30	7500	70	2.0
YELLOW CARD	VAMPGREEN Y 30G RC V0 28 1S 04	PA66 30% GF	PIR	40%	V0 (0.4mm) 5VA (1.5mm)	-	1.43	10000	120	1.9
	VAMPGREEN Y 30G RC V0 28 HF 1S 04	PA66 30% GF	PIR	40%	V0 (0.8mm)	775/1-2	1.53	12000	135	1.6
	VAMPGREEN Y 25G RC V0 30 1S 05	PA66 25% GF	PIR	50%	V0 (1.6mm)	-	1.35	8500	125	2
	VAMPGREEN N 20G RC V2 28 1S 06 MF	PA6 20% GF	PIR	60%	V2 (0.8mm)	-	1.33	4800	60	5
YELLOW CARD	VAMPGREEN N 30G RC V0 28 1S 04	PA6 30% GF	PIR	40%	V0 (0.4mm) 5VA (1.5mm)	-	1.44	10000	110	2.0
	VAMPGREEN N 30G RC V0 28 GW 1S 04	PA6 30% GF	PIR	40%	V0 (0.8mm)	775/1-2	1.45	11000	120	2.0
	VAMPGREEN N 30G RC V2 36 1S 04	PA6 30% GF	PIR	40%	V2 (0.8mm)	775/1-2	1.50	10500	115	1.7
	VAMPGREEN N 30G RC V0 28 2S 04	PA6 30% GF	PCR	40%	V0 (0.8mm)	-	1.44	10000	120	2
	VAMPGREEN C 00U RC V0 2S 08	PC unfilled	PCR	80%	V0 (1.6mm)	775/1-2	1.19	2400	60	> 50
	VAMPGREEN C 10G RC V0 2S 08 PF	PC 10% GF	PCR	80%	V0 (3.2mm)	775/1-2	1.26	4800	85	2.5
	VAMPGREEN C1 00U RC V0 2S 07	PC/ABS unfilled	PCR	70%	V0 (1.6mm)	-	1.19	2600	50	> 50
	VAMPGREEN C3 00U RC V0 2S 08	PC/ABS unfilled	PCR	80%	V0 (1.6mm)	775/1-2	1.19	2500	60	> 50

DENIGREEN

DENIGREEN™ RC
PIR and PCR high technical solutions

	GRADE	Base Polymer	Source	Minimum Recycled content	Flammabil-ty rating	Density [g/cm³]	Tensile modulus [MPa]	Tensile Strength [MPa]	Elongation @ break [%]	HDT (1,8 MPa) [°C]
	DENIGREEN P 10E RC 1S 09	PP + PET	PIR	90%	-	0.95	1500	25	> 100	50
	DENIGREEN P 10G RC 2S 08	PP 10% GF	PCR	80%	HB	1.01	2500	30	5	90
	DENIGREEN P 20G RC 2S 07	PP 20% GF	PCR	70%	HB	1.05	4000	50	4	130
YELLOW CARD	DENIGREEN N 15G RC 1S 06 H	PA6 15% GF	PIR	60%	HB	1.20	5000	80	3.5	190
	DENIGREEN N 20G RC 1S 06 H	PA6 20% GF	PIR	60%	HB	1.24	6000	95	2.5	190
	DENIGREEN Y 13G RC 1S 08	PA66 13% GF	PIR	80%	HB	1.23	5500	100	2.5	240

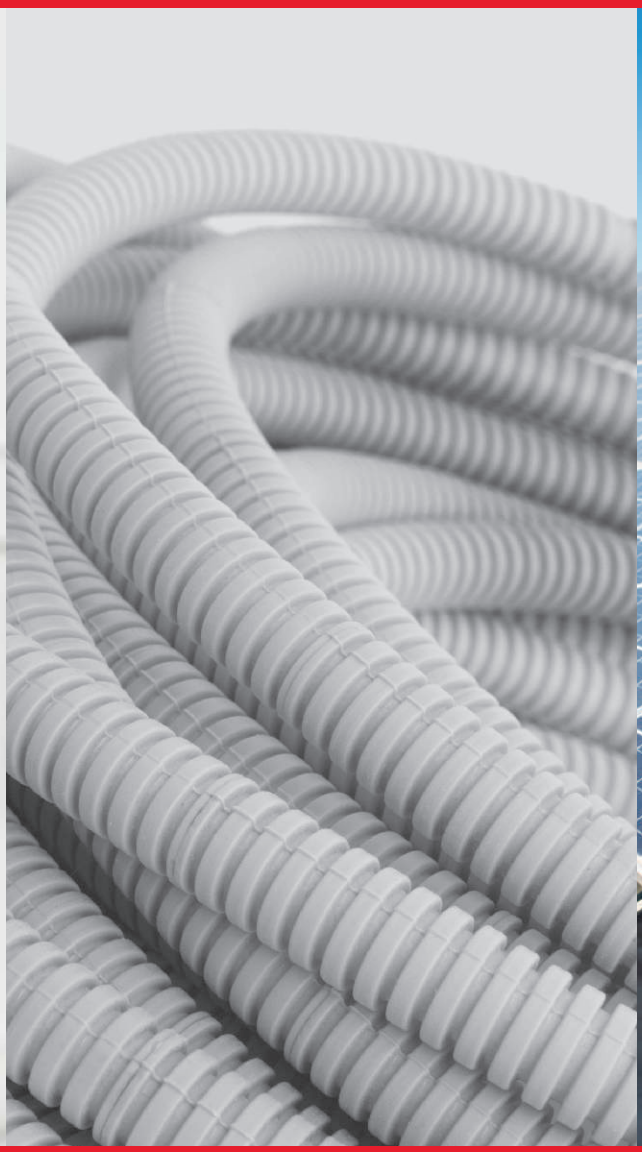
Tailored product portfolio for specialized technical application

Mobility

Household appliances

Electrical & Electronics (E&E)

Building and Construction



Energy Management

Mobility

VAMP TECH's flame retardant compounds have all the requirements to enter the e-mobility world, standing as the ideal products to make high voltage connectors, charging systems, mounts, housings for electrical and electronic boards, engines, battery covers, and other battery elements. In the imminent future of the automobile, there will be more and more connectivity, electronics, and sensors, and we are ready with the best flame retardant materials adaptable in charging systems, with thermally conductive grades for cooling electronics and LEDs, and solutions for EMI shielding.

FLAME RETARDANT PRODUCT PORTFOLIO

	GRADE	Material type	Flammability rating	Halogen free	Density	Continuous use temperature	Tensile properties (TS/elongation)	Impact strength (NI/UI)	Chemical resistance
YELLOW CARD	VAMPLEN 2528 V0 CB	PP GF25	V0 @ 1.5mm	YES	1.24	120	60/2.8	9/30	High
YELLOW CARD	VAMPLEN M 2025 O V0 DF	PP MF20	V0 @ 1.6mm f1	NO	1.36	120	20/>10	4/25	High
YELLOW CARD	VAMPLEN 3026 V0 CB T DF	PP GF30	V0 @ 0.8mm	NO	1.46	120	55/2.5	10/35	High
YELLOW CARD	VAMPAMID 6 3028 V0	PA6 GF30	V0 @ 0.4mm	YES	1.43	130	130/2.5	9/55	Good
YELLOW CARD	VAMPAMID 66 0024 V0	PA66	V0 @ 0.8mm	YES	1.18	130	70/>10	3.5/60	Good
	VAMPAMID 66 3528 V0 MF	PA66 (MD+GF) 35	V0 @ 1.6mm	YES	1.47	130	45/1.9	2/15	Good
YELLOW CARD	VAMPAMID 66 3028 V0	PA66 GF30	V0 @ 0.4mm	YES	1.43	140	150/2.5	8/55	Good
YELLOW CARD	VAMPAMID 66 5030 V0 P	PA66 GF50	V0 @ 0.8mm	YES*	1.62	140	175/2	9/55	Good
YELLOW CARD	VAMPTER 4554 V0 60 F20	PBT (MD+GF) 45	V0 @ 0.8mm	NO	1.69	135	85/1.8	7/40	-
YELLOW CARD	VAMPTER 3028 V0	PBT GF30	V0 @ 0.25mm	YES	1.53	135	90/1.8	8/35	-
	VAMPTER Q 3026 V0	PBT/ASA GF30	V0 @ 1.6mm	NO	1.54	120	110/2	7/40	Good
YELLOW CARD	VAMPAMID HT 3028 V0	PPA GF30	V0 @ 0.4mm	YES	1.44	155	160/2	7/50	High
GREEN	VAMPGREEN P 00 U RC V0 28 2S 03	PP from PCR	V0 @ 1.6mm	YES	1.07	90	18/>30	2/25	High
YELLOW CARD GREEN	VAMPGREEN Y 30G RC V0 28 1S 04	PA66 from PIR, GF30	V0 @ 0.4mm	YES	1.43	140	120/1.9	6/40	Good
GREEN	VAMPGREEN B 30G RC V0 28 1S 04	PBT from PIR, GF30	V0 @ 0.8mm	YES	1.53	135	90/1.8	8/35	-

*Red phosphorus based grade

THERMALLY CONDUCTIVE GRADES

GRADE	Material type	Thermal conductivity (in plane/through plane) W/m*k	Electrical cundictivity	Density	Continuous use temperature	Tensile properties (TS/ elongation)	Impact strength (NI/UI)	Flammability rating
DENITHERM N 12TC2 03	PA6	5/0.8	NO	1.73	120	50/1.0	2/10	NR
DENITHERM N 8TC3 03	PA6	4/0.7	NO	1.39	120	60/1.2	2.5/15	NR
VAMPTHERM N 8TC3 03 V0 26	PA6	4/0.7	NO	1.58	120	55/0.8	2.5/8	V0/1.6 HAL
DENITHERM N 14TC6 01	PA6	1.5/1.0	NO	2.2	120	80/1.5	3.0/30	NR
DENITHERM B 12TC1 04	PBT	10/2	SI	1.65	120	45/0.7	2/8	NR
DENITHERM N 7TC1 04	PA6	12/1.8	SI	1.55	120	60/0.7	45537	NR
DENITHERM B 12TC1 04	PA6	14/1.6	SI	1.35	120	60/1	2/9	NR
VAMPTHERM P 12TC5 01 V0 28	PP	0.9/0.8	NO	1.45	70	10/1.5	10/50	V0/3.2 HF
VAMPTHERM F 12TC8 01	PPS	0.5/0.4	NO	1.87	200	-	2.5/10	V0/1.6 HF

The use of VAMP TECH's grades in the mobility business goes beyond e-mobility; under-the-hood parts, battery holders, cable channels, and electronic card boards in thermal engine cars are examples of applications that may require flame resistance performances.

In addition, public transportation regulations (like EN45545 and ECE R118) require a high standard of flammability protection with specific attention to the smoke density and toxicity of the products. We can offer a complete portfolio of solutions to cover the needs of the major applications in public transportation (train and bus seats, cable channels, electric parts, etc.)

COMPLIANT TO EN 45545-2

Material	Description	R1	R5	R6	R7	R19	R21	R22	R23	R24	R26
VAMPLEN 0024 V0 C E	PP, unfilled, UL 94 V0 halogen free, extrusion grade	-	-	-	-	-	-	HL3	HL3	-	-
VAMPLEN 0024 V0	PP, unfilled, UL 94 V0 halogen free	-	-	HL3	-	-	-	-	-	-	-
VAMPLEN 0024 V0 C LT	PP, unfilled, UL 94 V0 halogen free	-	-	-	-	HL3	-	-	-	-	-
VAMPLEN 2528 V0 CB	PP, glass fibre reinforced, UL 94 V0 halogen free	-	HL3	HL3	-	-	-	HL3	HL3	-	-
VAMPALLOY 0024 V0 12 LSFT	PC/ABS, unfilled, UL 94 V0 halogen free	-	-	-	-	-	HL3	HL2	HL3	HL3	-
VAMPAMID 6 0024 V0	PA6, unfilled, UL 94 V0 halogen free	-	-	-	-	-	-	HL3	HL3	-	-
VAMPAMID 6 0024 V0 E 40 T DB	PA6, unfilled, UL 94 V0 halogen free, extrusion grade	-	-	-	-	-	-	HL3	HL3	-	-
VAMPAMID 6 3028 V0	PA6, glass fibre reinforced, UL 94 V0 halogen free	-	-	-	-	-	-	HL2	HL2	-	HL3
VAMPAMID 66 0024 V0	PA66, unfilled, UL 94 V0 halogen free	-	-	-	-	-	-	HL3	HL3	-	-
VAMPAMID 66 3028 V0	PA6, glass fibre reinforced, UL 94 V0 halogen free	-	-	-	-	-	-	HL3	HL3	-	-
VAMPAMID 66 3028 V0 HF	PA6, glass fibre reinforced, UL 94 V0 halogen free	HL1	-	HL1	HL2	-	-	HL3	HL3	-	-
VAMPAMID HT 3028 V0	PPA, glass fibre reinforced, UL 94 V0 halogen free	-	-	-	-	-	-	HL3	HL3	-	-
VAMPAMID 12 0024 V0 HL/F	PA12 resin plasticized, unfilled, halogen free for extrusion	-	-	-	-	-	-	HL2	HL2	-	-
VAMPCARB U 0024 V0	PC based blend, UL 94 V0 halogen free	HL2	-	-	-	-	-	-	-	-	-

COMPLIANT TO ECE R 118

Material	Description	Annex 6	Annex 7	Annex 8
VAMPLEN 0024 V0 C	PP, unfilled, UL 94 V0 halogen free	< 100 mm/min	Compliant	< 100 mm/min
VAMPLEN 0024 V2 LBC GW C	PP, unfilled, UL 94 V2 halogen free	< 100 mm/min	Compliant	< 100 mm/min
VAMPLEN A 0023 C V2 HP	PP, unfilled, UL 94 V2 halogenated	< 100 mm/min	Compliant	< 100 mm/min

COMPLIANT TO NFPA 130

Material	Description	ASTM E 162	ASTM E 662	BSS 7239
VAMPLEN 2528 V0 CB	PP, 25% glass fibre reinforced, UL 94 V0	Compliant	Compliant	Compliant

Household appliances:

VAMP TECH's extensive experience in the field of flame retardant compounds and its numerous certifications enable it to offer customers a wide range of compounds for household appliances. We offer products that meet the most stringent requirements of this sector, starting with UL 5VA and VDE-certified flame retardant solutions, halogenated and halogen-free compound-based, able to meet GWEPT performance following the last update of the EN60335. Our solutions find a place in refrigerator components, washing machines, driers, ovens, induction kitchens, and many small appliances like coffee machines and vacuum cleaners.

GWIT GRADES FOR HA MARKET

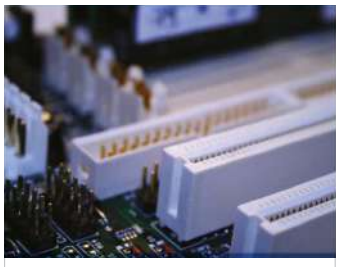
	GRADE	Material type	RTI	Flammability Characteristics	Key Characteristics
YELLOW CARD	VAMPLEN 0024 V2 LBC GW	PP based compound, unreinforced, halogen free flame retarded formulation	110°C @ 1.6 mm	V2 @ 0,75mm, ball test 125°C , GWIT 775°C @ 1,2,3 mm	Good dimensional stability and surface appearance
YELLOW CARD	VAMPLEN 0024 V0 C	PP based compound, unreinforced, halogen free flame retarded formulation	90°C @ 1.6mm	V0 @ 1,5mm, GWT 750° no flame@ 1,0 mm, ball test 125°C	Hinge effect, LOI > 32, low smoke density
YELLOW CARD	VAMPAMID 66 3028 V0 HF	PA66, 30% glass fibre reinforced, UL 94 V0 halogen free	140°C @ 0.4 mm	V0 @ 0,4mm, 5VA @ 1,6 mm, GWT 750°C no flame	Higher rigidity, dimensional stability and surface resistivity compared to standard halogen free polyamide formulations
YELLOW CARD	VAMPAMID 66 2528 V0 GW4	PA66, 25% glass fibre reinforced, UL 94 V0 halogen free	140°C @ 0.4 mm	V0 @ 0,4mm, 5VA @ 1,6 mm, GWIT 775°C no flame	Dimensional stability and surface resistivity compared to standard halogen free polyamide formulations
YELLOW CARD	VAMPAMID 66 0023 V0 H GW	PA 66 unfilled, UL 94 V0 halogenated	140°C @ 0.4 mm	V0 @ 0,4mm, GWIT 775°C no flame	Good aesthetic properties, good processability
	VAMPTER 3028 V0 GW	PBT, 30% glass fibre reinforced, UL 94 V0 halogen free	-	V0 @ 0,4mm, 5VA @ 0,8 mm, GWIT 775°C no flame	Very good flammability properties, low moisture absorpion, good aesthetic properties, good processability
YELLOW CARD	VAMPAMID HT 3028 V0	PPA, 30% glass fiber, UL 94 V0 halogen free	155°C @ 0.4mm	V0 @ 0,25mm, GWIT 775°C no flame	Dimensional stability, high chemical resistance and mechanical properties at high temperature. Low moisture absorption. A45

5VA GRADES FOR HA MARKET

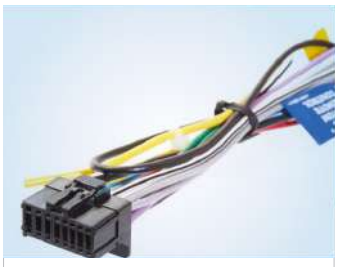
	GRADE	Material type	5VA listing	Flammability Characteristics	Key Characteristics
YELLOW CARD	VAMPAMID 66 2526 V0 40	PA66, 25% glass fibre reinforced, UL 94 V0 halogenated	1.6 mm	V0 @ 0.4 mm, RTI 140°C, GWIT > 775°C	Very good flammability properties, high mechanical properties, good aesthetic properties, good processability
YELLOW CARD	VAMPAMID 66 2528 V0 GW4	PA66,25% glass fibre reinforced, UL 94 V0 halogen free	1.5 mm	V0 @ 0.4mm, 5VA @ 1,6 mm, GWIT 775°C no flame	Dimensional stability and surface resistivi compared to standard halogen free polyamide formulations
YELLOW CARD	VAMPAMID 66 3028 V0 HF	PA66, 30% glass fibre reinforced, UL 94 V0 halogen free	1.5 mm	V0 @ 0.4 mm, RTI 140°C, GWIT > 775°C	High rigidity, high dimensional stability and surface resistivity, very good processability and low corrosion
YELLOW CARD	VAMPAMID 6 3028 V0	PA6, 30% glass fibre reinforced, UL 94 V0 halogen free	1.0 mm	V0 @ 0.25 mm, RTI 130 °C	Very good flammability properties, high mechanical properties, good aesthetic properties, good dimensional stability
YELLOW CARD	VAMPLEN M 2025 O V0 DF	PP, 20% mineral filled, UL 94 V0 halogenated	2.0 mm	V0 @ 1.6 mm, F1 classification for outdoor use, following UL 746C	Good mechanical properties, very good dimensional stability, very good flammability behaviour
YELLOW CARD	VAMPLEN 0024 V0 C HP	PP, unfilled, UL 94 V0 halogen free	1.5 mm	V0 @ 0.25 mm, GWIT > 775 °C	Very good flammability properties, good mechanical properties, good aesthetic properties, good dimensional stability
YELLOW CARD	VAMPLEN 3028 V0 CB HP	PP, 30% glass fiber, UL 94 V0 halogen free	1.5 mm	V0 @ 0.8 mm, GWIT > 775 °C	Very good flammability properties, good mechanical properties, good aesthetic properties, good dimensional stability
YELLOW CARD	VAMPLEN 0024 D V0 C	PP, unfilled, UL 94 V0 halogen fre	2.0 mm	V0 @ 1.5 mm, GWIT > 775 °C	Good flammability properties, excellent mechanical properties, good aesthetic properties, good dimensional stability
YELLOW CARD	VAMPSAB 0023 V0 A	ABS unfilled, UL 94 V0 halogenated	1.6 mm	V0 @ 1.6 mm, RP50 1.6 - 2.7 mm all colour, RP50 2.8 - 3.0 mm natural version	Good flammability properties, excellent mechanical properties, excellent aesthetic properties, excellent dimensional stability
YELLOW CARD	VAMPTER 3026 V0 DF	PBT, 30% glass fibre reinforced, UL 94 V0 halogenated	1.6 mm	V0 @ 0.4 mm, RTI 140°C	Very good flammability properties, low moisture absorption, good mechanical properties, good processability
YELLOW CARD	VAMPTER 1026 V0 DF	PBT, 10% glass fibre reinforced, UL 94 V0 halogenated	1.6 mm	V0 @ 0.4 mm, RTI 140°C	Very good flammability properties, high flexibility, low misture absorption, good processability
YELLOW CARD	VAMPTER 3028 V0	PBT, 30% glass fibre reinforced, UL 94 V0 halogen free	0.8 mm	V0 @ 0.25 mm, CTI 600 V, GWIT > 775 °C	Very good flammability properties, good mechanical properties, good aesthetic properties, good dimensional stability
YELLOW CARD GREEN	VAMPGREEN N RC 30G 28	PA6 from PIR, 30% glass fibre reinforced, UL 94 V0 halogen free	1.5 mm	V0 @ 0.4 mm, GWIT > 775 °C	Very good flammability properties, high mechanical properties, good aesthetic properties, good dimensional stability
YELLOW CARD GREEN	VAMPGREEN Y RC 30G 28	PA66 from PIR, 30% glass fibre reinforced, UL 94 V0 halogen free	1.5 mm	V0 @ 0.4 mm, GWIT > 775 °C	Very good flammability properties, high mechanical properties, good aesthetic properties, good dimensional stability

Electrical & Electronics (E&E)

VAMP TECH can offer many solutions based on different types of polymers for applications, such as electrical distribution boxes, fuse holders, electronic enclosures, connectors and switches, extruded pipes, and tubes. We can also offer applications for many other devices that need fire resistance in the presence of high currents and voltages, mechanical and thermal shocks in different environmental conditions, and for several years.
There are numerous applications in which our flame retardant compounds find use, thanks to their UL 94 V0 and 5VA properties even at very low thicknesses, CTI 600V, GWIT 775°C and GWFI 960°C, robustness, resistance to high temperatures, and the most extreme environmental conditions.



BOARD CONNECTORS
VAMPAMID HT 3028 V0
PPA, 30% glass fibre reinforced,
UL 94 V0 halogen free



CONNECTORS
VAMPAMID 66 0023 V0 H GW
PA66, unfilled, UL 94 V0
halogenated

CIRCUIT BREAKERS
VAMPAMID 66 2526 V0 40
PA66, 25% glass fibre reinforced,
UL 94 V0 halogenated

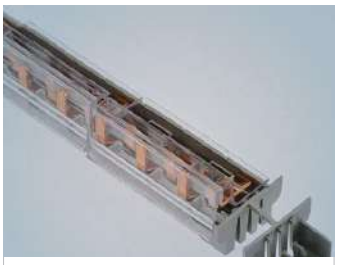
RELAY BASES
VAMPAMID 6 2028 V2 MF
PA6, 20% glass fibre reinforced,
UL 94 V2 halogen free

INDUSTRIAL SWITCH
VAMPAMID 66 3028 V0
PA66, 30% glass fibre reinforced,
UL 94 V0 halogen free

CONTACTOR
VAMPAMID 6 3028 V0
PA6, 30% glass fibre reinforced,
UL 94 V0 halogen free

FUSE HOLDER BOX
VAMPGREEN N 20G RC V2 28 1S 06 MF
PA6 from PIR, 20% glass fiber
reinforced, UL 94 V2 halogen free

GREEN



CHANNEL CONNECTOR
VAMPGREEN P 00U RC V0 28 1S 07
PP, unfilled, UL 94 V0 halogen free

GREEN

CIRCUIT BREAKER
VAMPGREEN Y 30G RC V0 28 HF 1S 04
PA66, 30% glass fibre reinforced,
UL 94 V0 halogen free

GREEN

Building and Construction

Although engineering plastics are not always visible inside buildings, a wide range of compounds are dedicated to the construction sector, emphasizing thermal and acoustic insulation, weathering and corrosion resistance, mechanical performance, and flame retardant performance.

These are mainly applications, many of them obtained by extrusion, involving corrugated or rigid pipes, junction boxes, switches, cable ducts, and profiles.

The materials we develop meet the application needs of the market, which requires performance in line with energy efficiency; this has enabled the development of innovative compounds through the use of alternative and environmentally friendly raw materials, which still comply with German B1 and French M1 and M2 standards.

CERTIFIED GRADES FOR BUILDING SECTOR

	GRADE	Material type	Certification	Density	Vicat B	HDT A	Tensile Strength	Tensile Modulus	Impact strength (NI/UI)
YELLOW CARD	VAMPLEN 0023 V2 C B1 DB	PP, unfilled, UL 94 V2 halogenated	B1 (DIN 4102-1)	0.95	70°C	50°C	15 MPa	1000 MPa	7/NB
YELLOW CARD	VAMPAMID 6 0024 V0	PA6, unfilled, UL 94 V0 halogen free	B1 (DIN 4102-1)	1.17	200°C	70°C	60 MPa	3200 MPa	4.5/NB
YELLOW CARD	VAMPALLOY 0024 V0 13	PC/ASB, unfilled, UL 94 V0 halogen free	M1 (UN 23.727-90)	1.19	130°C	110°C	50 MPa	2500 MPa	35/NB
	VAMPLEN 1026 V0 CB	PP, 10% glass reinforced, UL 94 V0 halogenated	M2 (UN 23.727-90)	1.36	120°C	130°C	40 MPa	3500 MPa	04/15

CORRUGATED PIPES
VAMPLEN 0024 V0 C E,
PPC unfilled, UL 94 V0 halogen free

CABLE CHANNEL
PVC substitution
VAMPALLOY 1527 V0
PC/ABS, UL 94 V0 halogen free

CORRUGATED PIPES
High mechanical requirements
VAMPAMID 6 0024 V0 E TDB
PA6, unfilled, UL 94 V0 halogen free

JUNCTION BOXES
VAMPLEN 0024 V2 LBC GW
PP unfilled, UL 94 V2 halogen free

SMOOTH PIPES
VAMPALLOY 0024 V0 12 E LSFT
PC/ABS blend, unfilled, UL 94 V0 halogen free

SWITCH BOX
VAMPGREEN P 00U RC 28 1S 07
PP from PIR, unfilled, UL 94 V0 halogen free

GREEN

Energy Management

Every day, billions of people benefit from the possibility of heating and cooling their homes and offices, cooking their food, or warming their water. In recent years, particular attention has been given to lowering emissions, and many low-carbon and net-zero solutions are entering the market.

Whenever it comes to traditional gas heaters or environmentally friendly technologies, such as solar panels, windmills, battery storage systems, heat pumps, or condensation boilers, at VAMP TECH, we can offer the right solution for the flame resistance, mechanical integrity, and thermal safety of applications.

	Field	Application	Grade	Merial type	Flammability rating	CTI	Halo-gen-free	Key characteristic
YELLOW CARD	Energy storage	Battery	VAMPLEN M 2025 O V0 DF	PP + 20% mineral filled	V0 5VA f1	> 600	-	f1 UL 746C - outdoor application certified Low hygroscopicity Excellent chemical resistance High dimensional stability
	Energy storage	Battery	VAMPAMID 66 3528 V0 MF	PA66 + 35% milled fiber	V0	> 600	YES	Excellent dimensional stability High thermal resistance
	Energy storage	Battery	VAMPTER Q 3026 V0	PBT/ASA + 30% glass fiber	V0	400	-	Impact resistance High dimensional stability Good aesthetic properties
YELLOW CARD	Energy storage	Battery	VAMPLEN 0024 V0 C/Q	PP unfilled	V0	> 600	YES	High flow High chemical resistance Good aesthetic properties
YELLOW CARD	Energy storage	Battery	VAMPTER 3026 V0 DF	PBT + 30% glass fiber	V0	250	-	High dimensional stability Good aesthetic properties Low hygroscopicity
YELLOW CARD	Power transmission	Insulator	VAMPAMID 66 5030 V0 P	PA66 + 50% glass fiber	V0	600	YES*	High dielectric strength Excellent rigidity and mechanical strength
	Power transmission	Insulator	VAMPAMID 66 3028 V0 HF M	PA66 + 30% glass fiber	V0 5VA	400	YES	High dielectric strength Excellent dimensional stability High processabilty and low corrosion
YELLOW CARD	Solar panel	Solar panel	VAMPAMID 66 2526 V0 40MQ	PA66 + 25% glass fiber	V0 5VA	400	-	Weather condition resistance Good aesthetic properties
YELLOW CARD	Solar panel	Solar panel	VAMPAMID 66 2530 V0 P	PA66 + 25% glass fiber	V0 f1	500	YES*	f1 UL 746C - outdoor application certified Low hygroscopicity
YELLOW CARD	Heat pump	Hydronic parts	VAMPAMID HT 3028 V0	PPA + 30% glass fiber	V0 - GWIT	> 600	YES	Low moisture absorption High thermal resistance
YELLOW CARD	Heat pump	Hydronic parts	VAMPAMID 66 4026 V0/P	PA66 + 40% glass fiber	V0 - GWIT	400	-	Excellent dimensional stability High thermal resistance
YELLOW CARD	Heat pump	Hydronic parts	VAMPCARB 0024 V0	PC unfilled	V0 - GWIT	-	-	High thermal resistance Excellent aesthetical properties
YELLOW CARD	Condensing boiler	Piping and tanks	VAMPSAB 0023 V0 DF	ABS unfilled	V0	400	-	Excellent flow ability Very high impact resistance Good weldability Excellent aesthetic properties
YELLOW CARD	Condensing boiler	Burner	VAMPSON L 4010	PPS + 40% glass fiber	V0	-	YES	Chemical resistance (acid water) High flow High thermal resistance

*Red phosphorus based grade

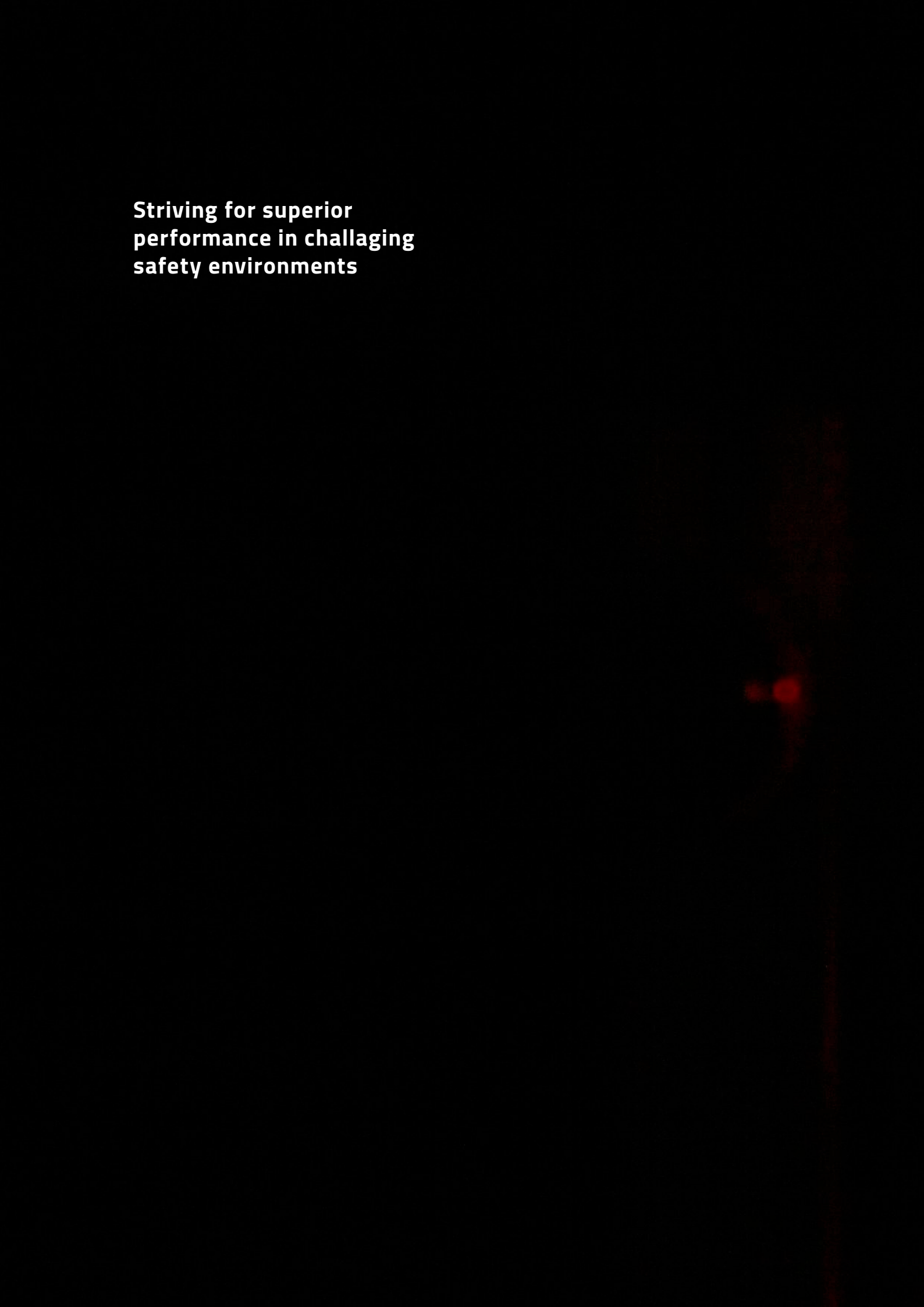
Sustainability

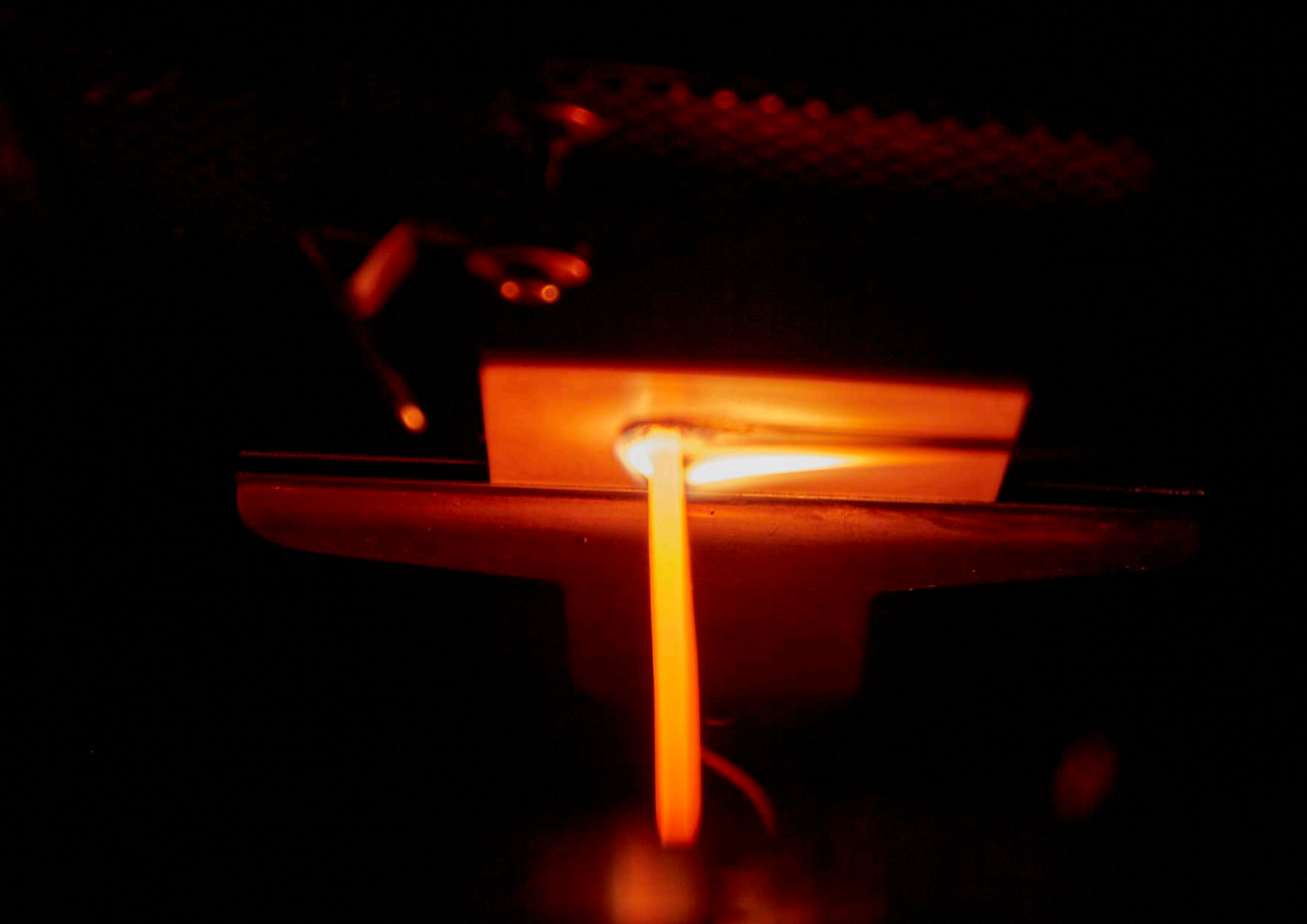
Addressing the global challenge of climate change, we initiated our sustainability journey in 2019 by reporting greenhouse gas (GHG) emissions. From 2021 our calculations included Scope 3 emissions and we are actively engaged on platforms like CDP and Ecovadis. In 2022, we started conducting Carbon Footprint and Life Cycle Assessment studies on our products in compliance respectevly with ISO 14067 and ISO 14040 guidelines.

Our strategic approach uses these results as a guide to set improvement goals for the next five years. The objective is to progressively reduce our environmental impact and develop a portfolio of products that is increasingly sustainable.

Embracing Self-Awareness for Enhanced Process and Product Sustainability.

Striving for superior performance in challaging safety environments





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Partner with us,
and let's embark on a journey of
Innovation, Excellence and Success