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## Innotrans exhibition in Berlin; Vamp Tech running at high speed on European Trains

Innotrans exhibition was successfully held in Berlin from 23<sup>rd</sup> to 26<sup>th</sup> of September. It was an outstanding event for all those companies involved in the rolling stocks with more than 2.500 exhibitors, coming from more than 50 countries, showing plenty of innovations in railways applications.

Vamp Tech presented a range of flame retardant and halogen free compounds certified according to EN45545, the new European standard on fire safety in railway vehicles, which was introduced in 2013, and will replace in the near future the national regulations in Europe.



The new standard involves significant modification in the selection of thermoplastic materials which will have to be submitted to various tests of fire resistance, heat release rate, smoke toxicity, and optical density of smoke.

According to specific application of the thermoplastic component in the vehicle the standard defines the tests which will be applied to the thermoplastic material (requirement set) and on the basis of the results obtained is assigned Hazard Level (HL) between the values of 1 and 3.

The possibility of use of the material in any type of vehicle (rails, subways, and so on) is guaranteed by the Hazard Level 3 (HL3).

With reference to the requirement set R22 / R23, which covers the electrical components inside and outside the vehicle (ducts for cables, connectors, relays, etc.) Vamp Tech introduced at Innotrans the following certified products:

VAMPLN 0024 CE V0 (PP extrusion, flame retardant UL 94 V0 halogen free) **HL3**

VAMPAMID 0024 V0 6 (PA6, UL 94 V0, self-extinguishing halogen-free) **HL3**

VAMPAMID 66 3028 V0 HF (PA66 30% GF, UL 94 V0 flame retardant halogen-free) **HL3**

VAMPAMID 3028 V0 6 (PA6, 30% GF, UL 94 V0 flame retardant halogen-free) **HL2**

In addition for the requirement set R6 relative to seats for trains Vamp Tech offered the product: VAMPLN 2528 V0 CB (PP, flame retardant UL 94 V0 halogen free) **HL2**

All the above mentioned products are halogen and red phosphorus free compounds, for the utmost respect for the environment and health of the passengers, and ensure high performance and flame resistance combined with excellent processability.

Finally, during the event Vamp Tech exhibited products certified according to the Italian standard UNI 9174, the French standard NF 16-101 (Class F1), the German standards DIN 5510 and DIN 4102 (Class B1) and according to American Docket 90.

Vamp Tech's commitment is to support customers in dealing with the requirements of new regulations, providing high-performance products and co-design support.

