

advancing

protecting

ensuring the future



OrWind Meltemi Passive Protection System

INVISIBLE PROTECTION

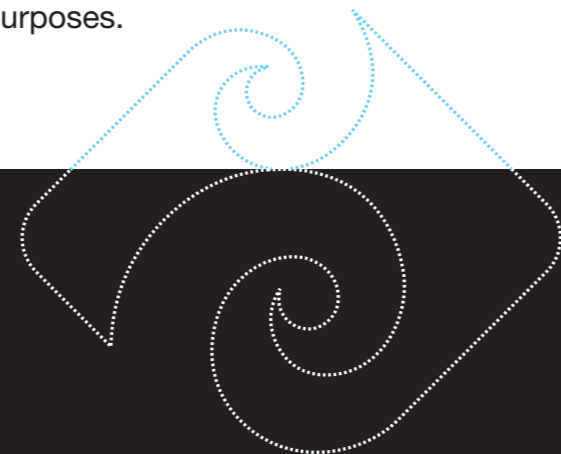
The most effective protection against fires consists precisely in ensuring that fires do not start. It is well known that in wind turbines, as well as in any other application, fires begin due to the existence of risk factors –overheatings, connections in poor conditions, power surges– combined with combustible materials, however low their level of inflammability or calorific power.

Therefore, the Meltemi system is designed to insulate combustible areas from possible risk-generating sources, thereby creating a physical barrier between both elements and thus avoiding fires in which damage can only be contained by means of a fire extinguishing system.

After studies based on data obtained directly from companies in the wind energy sector, a series of critical points have been recorded with

a high fire risk, allowing us to precisely and clearly identify the areas that need protection.

Using the OrWind Meltemi system these areas are efficiently protected. Thanks to the use of state-of-the-art insulating materials for passive protection, including excellent physical and mechanical features, separating and enclosing the areas to be protected, according to the needs of each application, maximum fire protection is guaranteed. The OrWind Meltemi solution adapts perfectly to all types of wind turbines, minimizing impact both during installation and during their use and maintenance. In addition, Orwind Meltemi offers an excellent acoustic protection, which makes it a perfect substitute for the materials used for these purposes.



FEATURES

HIGH RESISTANCE TO IGNITION CAUSED BY SPARKS. The friction of mechanical elements, such as disc pads, usually produces sparks that are potential fire sources. The studies and tests carried out and the certificates obtained guarantee excellent protection against high quantities of persistent, flying incandescent particles, which travel at a high speed.

CAPABLE OF WITHSTANDING THE SPILLING OF MOLTEN METALS. An electrical malfunction can cause overheating above 1000° C in conductive components up to the melting point of the metal which it is made of. Using the same methods as in the previous point, an extraordinary level of protection has been recorded against spilling or incidents with molten metals, with a high calorific power concentrated in only one point.

EXCELLENT SOUNDPROOFING. The operation of the electrical and mechanical elements which make up the wind turbine produces high levels of noise in normal working conditions. The components used in the OrWind Meltemi solution offer outstanding sound-proofing characteristics, with very high levels of noise reduction.

ADVANTAGES

FLEXIBLE AND LIGHT. The materials used adapt and adjust efficiently to the typical small and irregular dimensions of the area to be protected, being perfectly integrated within the components of the machine.

EASY TO INSTALL. The system is installed using prefabricated and easy to attach components, thereby reducing the operational impact of the technical shutdown that is required for assembly.

LOW MAINTENANCE. Just a visual inspection is enough to verify its good condition.

LONG WORKING LIFE. Because it does not contain organic components, its useful life is comparable to that of wind turbines.



OASYS GROUP
RENOVABLES Y ESPECIALES

Since 1960



OASYS GROUP
RENOVABLES Y ESPECIALES

Since 1960

> Telephone +34 976 50 44 64
> Fax +34 976 50 43 49
> email oasys@oasysgp.com
> www.oasysgp.com