WHY USING RESIN TECHNOLOGY IN RAILWAY APPLICATIONS?

RESIN TECHNOLOGY IN TRANSFORMERS IS WIDELY USED IN THE SPANISH RAILWAY INDUSTRY (E.G. ADIF PRESCRIBES IT IN POWER AND SIGNALING INSTALLATIONS) BECAUSE OF ITS MANY BENEFITS.

In high voltage applications, this technology reduces the risk of insulation faults as it represents a reinforced insulation in the windings of the transformer. That is not only because the resin has insulation properties but also due to the impossibility of electric arcs resulting from the existence of dust sediments and/or air condensation.

Another property of the resin is its higher thermal conductivity (with respect to the air). This increases the heat dissipation (reducing in this way the heating of the windings), lengthening the lifespan of the insulation materials, and hence of the transformer.

Additionally, the compact block created by the resin protects the windings against humid and corrosive atmospheres, and against the mechanical stress caused by the constant vibrations existent in facilities nearby rail tracks.

Regarding workers' safety, this technology offers protection against accidental direct contacts since the active elements of the windings are not accessible ■

MORE INFORMATION

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