

Maximize your system's POWER

OXIDIZED LITZ WIRE

DE ANGELI
PRODOTTI
every wire, everywhere.

www.deangeliprodotti.com



HF but solvent free



The **oxidized Litz Wire** is an innovative solution proposed by De Angeli Prodotti designed to maximize the efficiency of the final product.

This technology allows for a significant **increase in the use of copper in winding**, while ensuring reduced environmental impact. A distinctive feature of the oxidized Litz Wire is its production process, which **completely eliminates solvent emissions**, making it a sustainable choice for modern and more demanding applications.

Increase the fill factor!

The oxidized Litz Wire pushes beyond traditional limits by significantly **reducing the thickness** of the insulation on each individual wire.

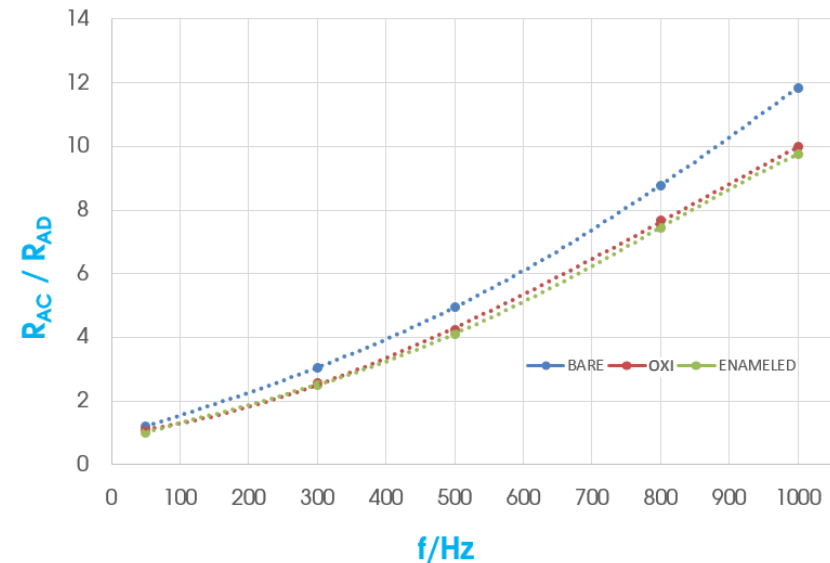
This reduction results in an **oxide layer** in the insulation of the single wire that is **much thinner than standard Grade 1** enamel, greatly increasing the fill factor.



Individual wire	Material	Spec. Resistance ($\Omega\text{mm}^2/\text{m}$)	Density (Kg/m^3)	Diameter (mm)
	Copper	0.0171	8890	≥ 0.20

External insulation type	Type	Thickness (μm)
	Polyester	23
	Nomex T410	50
	Polyimide	25 - 38 - 50
	Conductofol	90
	Mica-Glass	100
	And much more!	-

A comparison between different configurations of Litz



Oxidized Litz has similar characteristics to enameled insulated litz. **Increasing the frequency results in an increase in AC resistance.**