



POWERFIL®

High performance copper alloy

ADDRESSING PRODUCTION CHALLENGES FOR HIGH DEMANDING INDUSTRIES

The industries we serve are continuously looking to optimise production processes to ensure safe, efficient and high-quality manufacturing. Our tailor-made specialty wires in copper, aluminium and their alloys, are used in high demanding industries including aeronautics, automotive, medical applications and robotics. They form the basis for high-quality end products and solutions using processes such as wire drawing and stranding.

Using an innovative production process, Lamifil offers in-house design, manufacturing, quality control and supply of wire rod, drawn and extruded wires, bunched and stranded conductors and surface-treated wires. Our innovative copper alloys, including PowerFil®, provide better breakage ratios, conductivity, tensile strengths and thermal stability.

INTRODUCING POWERFIL®

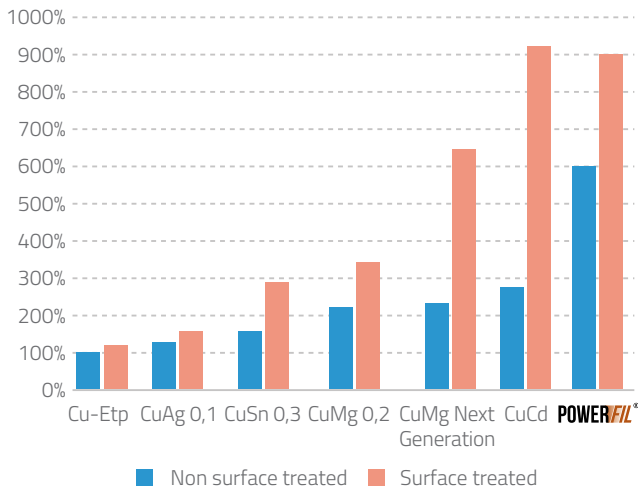
PowerFil® is a high performance, CuCrZr alloy used for fine wire drawing and stranding in automotive, aeronautics, robotics and medical applications, amongst others. Offering both high strength and excellent electrical conductivity, PowerFil® is suitable for metal plating. RoHS and ASTM B 624 compliant, this CuCrZr alloy is delivered in ultra fine drawn wires with a diameter smaller than 2,5 mm.

KEY BENEFITS

- > **High performance**
ASTM B624 compliant, PowerFil® offers a minimum strength of 414MPa and conductivity in excess of 90% IACS.
- > **Excellent plateability**
Thanks to their smooth surface, PowerFil® wires are highly suitable for metal plating.
- > **High processability**
Based on our extensive experience in developing copper alloys, we are continuously optimising our in-house manufacturing to deliver products with excellent breakage ratios.
- > **Consistent quality**
The stability of our copper alloy casting process results in consistent quality and product characteristics, always in compliance with industry standards.
- > **RoHS and REACH compliance**
The PowerFil® alloy complies to all contemporary standards and directives concerning hazardous products. It does not contain cadmium or elements that are hazardous for the environment.
- > **High flexlife**
PowerFil® is suitable for applications subject to significant mechanical stress, offering approximately 9 times the flexlife of Cu-etp.
- > **Softening resistance**
PowerFil® retains its properties and hardness when exposed to high operating temperatures.



COMPARISON OF THE FLEXLIFE

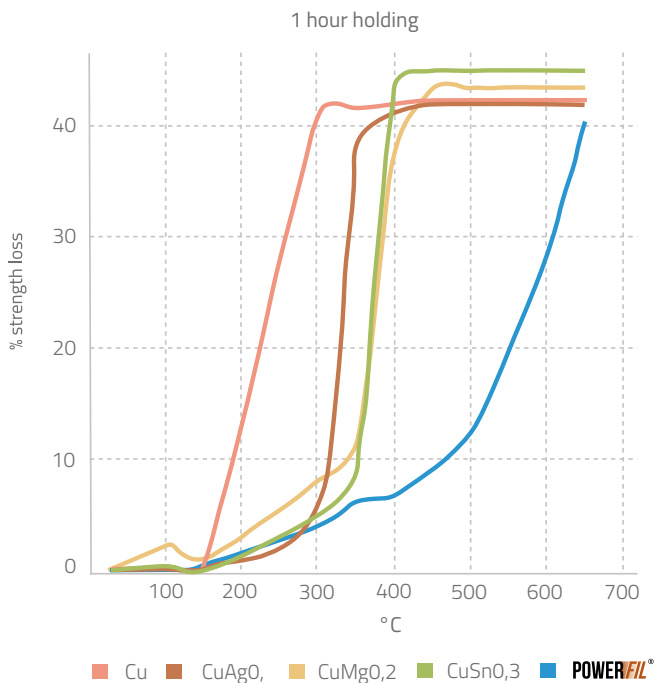


FLEXIBLE SERVICES

Want to find out how PowerFil® can help you to improve your end products and production processes? We advise you, work with you to develop products tailored to your specifications. We rigorously test them in our fully accredited lab at every step in our production process. Our commitment goes beyond the product, as we respond to your specific requests for packaging or transport.



ANNEALING CURVE



CONTACT US

To find out more on the benefits of PowerFil®, visit our website www.lamifil.be or get in touch with our team:

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PowerFil® values may differ depending on the diameter and/or type of the wire.