



PA12 coated copper strip

Bendability for the benefit of electric vehicles

Luvata's metallurgical, manufacturing and insulation expertise continues to support the future of EVs.

Through our continuous improvement, Luvata has succeeded in developing a high-adhesion PA12 coated copper strip.

Luvata PA12 coated copper strip is specifically designed for the growing EV market. It is able to withstand voltage of nearly 30kV and commonly used for battery connections.

Luvata PA12 coated copper strip is offered in a very soft temper, so it is easy to form and bend. The product can be bent into sharp angular shapes and even loops, meanwhile the adhesion of the insulation remains tight.

Luvata standard grade oxygen-free copper (Cu-OF) is a high purity copper that is immune against hydrogen embrittlement. It is used in applications where high electrical and thermal conductivity are essential.

It can be easily joined using all welding and brazing methods and is ideal for manufacturing processes requiring extreme deformability.



About Luvata

Luvata is a world leader in metal solutions manufacturing and related engineering services to industries such as renewable energy, automotive, healthcare, and power generation and distribution.

The company's continued success is attributed to its longevity, technological excellence and strategy of building partnerships beyond metals. Employing approximately 1,400 staff in 6 countries, Luvata works in partnership with customers such as ABB, CERN, Siemens and Toyota. Luvata is a group company of Mitsubishi Materials Corporation.

Technical specifications

| | |
|---------------------|---|
| Alloy | standard grade oxygen-free copper (Cu-OF) |
| Dimensions | width 8-20mm, thickness 2-6mm, full round edges |
| Soft temper | R200 |
| Adhesion | excellent coating adhesion |
| Flammability rating | tested according to UL 94 HB |

Packaging

Luvata high-quality PA12 coated copper strip is cut to the exact length of customer specifications and delivered on reels.

Support in overcoming the challenges facing the e-mobility industry

Luvata is focusing on copper's high thermal conductivity in designing next generation products that overcome customers' challenges in terms of charging times, heating, cooling, driving ranges and infrastructure.

Luvata recognizes these challenges as opportunities and has made improvements specifically targeting the accelerated pace of e-mobility research and development by offering:

- Custom designed semi-products
- Insulated semi-products or components ready for assembly
- High performance alloys
- Specifications with extreme tolerances
- Accelerated prototype manufacturing



Luvata PA12 coated copper strip on wooden reel.



Luvata PA12 coated copper strip available in all RAL standard colours.

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