



Kupros Statement of Capability

Cu-29, the world’s first all-metal high conductivity FFF/ FDM Filament 8007% more conductive than existing PLA conductive filament

Cu-29 Conductive Filament

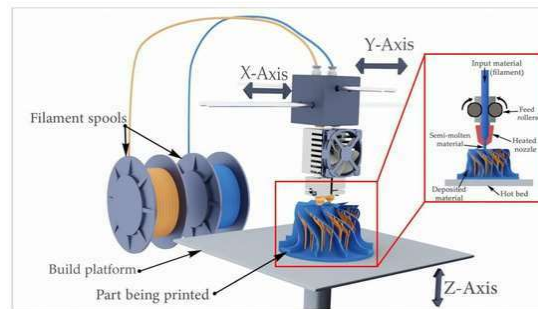
The Kupros Cu-29 high conductivity filament is the world’s first all-metal FFF/FDM filament.

- Invented at the Crane Naval laboratory
- ONR Design Innovation Award 2021
- Licensed to Kupros 2021
- Patent awarded 2022
- xTech Award Finalist 2022

Performance Data

Initial laboratory testing of Cu-29 demonstrated a **resistivity of only 74.3 microhm-centimeters.**

Conductivity testing the initial pilot line product was inconclusive as the difference between Cu-29 and pure copper wire was lower than the electrical noise on the circuit. Testing continues.



Kupros Evolution

Ian Ramsdell, Founder and CEO of Kupros was winner of an NSIN entrepreneurs kick start program. Kupros has completed the “Friends and Family” fund raising round and is fully funded until Q3 of 2023. Advance product orders have been received from NASA and KBR. Several Fortune 500 companies have expressed interest in partnering with Kupros.

Kupros is currently transitioning from “start-up” phase to pilot line production.

Kupros Filament Product Range

Cu-29 is the baseline product for a range of exotic all-metal filaments entering production in 2023, including the following variants:

- Cu-29HC – High Conductivity
- Cu-29AE – Aerospace - to address the issues of embedded electronics in space
- Cu-29RH – Radiation Hardening – to harden electronic circuits against radiation impairment
- Au-79 – Super Conductive Filament (2024)

Manufacturing Maturity

Production of the Cu-29 filament is assessed at MRL level 5. Kupros is committed to achieving the following production growth and manufacturing maturity plan:

- **2023 – MRL 7;** release Cu-29HC, AE and RH, 6,000-unit production; Registration for ISO 9001, ISO 14001, ISO 45001
- **2024 – MRL 8;** release Au-79 gold filament; 12,000-unit production
- **2025 – MRL 9** – 24,000-unit production
- **2026 – MRL 10** – 40,000-unit production

Security Clearance

All Kupros personnel are military veterans or former DoD employees with prior security clearance of “Secret” or higher.

<p>Unique Entity ID: JBA9ASVXG3H5 CAGE/NCAGE:9B7E0 NAICS Codes: 334419, 334220, 335999</p>		<p>Download the Information pack www.kuprosinc.com/information</p> 
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