

Copper Microparticles CMP101

Description:

Copper atom has lost one electron so the ions vibrate and free electrons move between them. This results in best electrical and thermal properties of Cu. Copper is a naturally hygienic metal that slows down the growth of bacteria and acts as an anti-biotic, anti-microbial, and anti-fungal agent.

Characterization	
CAS	7440-50-8
Stock No.	CMP101
Molecular formula	Cu
Molecular weight (g/mol)	63.55
Form	Powder
Color	Red brown
Morphology	Dendritic
Crystal structure	FCC
Size range (µm)	3-7
Total impurity (%)	N/A
Oxide density (g/cm ³)	N/A
Melting point (°C)	1084.62
Boiling point (°C)	2927
Density (g/cm ³)	8.9
Solubility	Insoluble



Image of copper micropowder (CMP101)

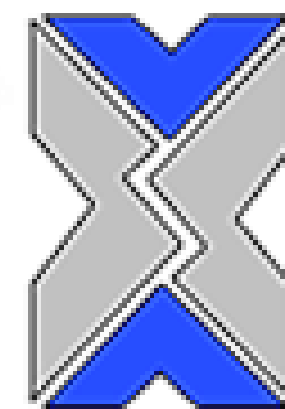
Note: product specifications are subject to amendment and may change over time.

Applications (but not limited to the following):

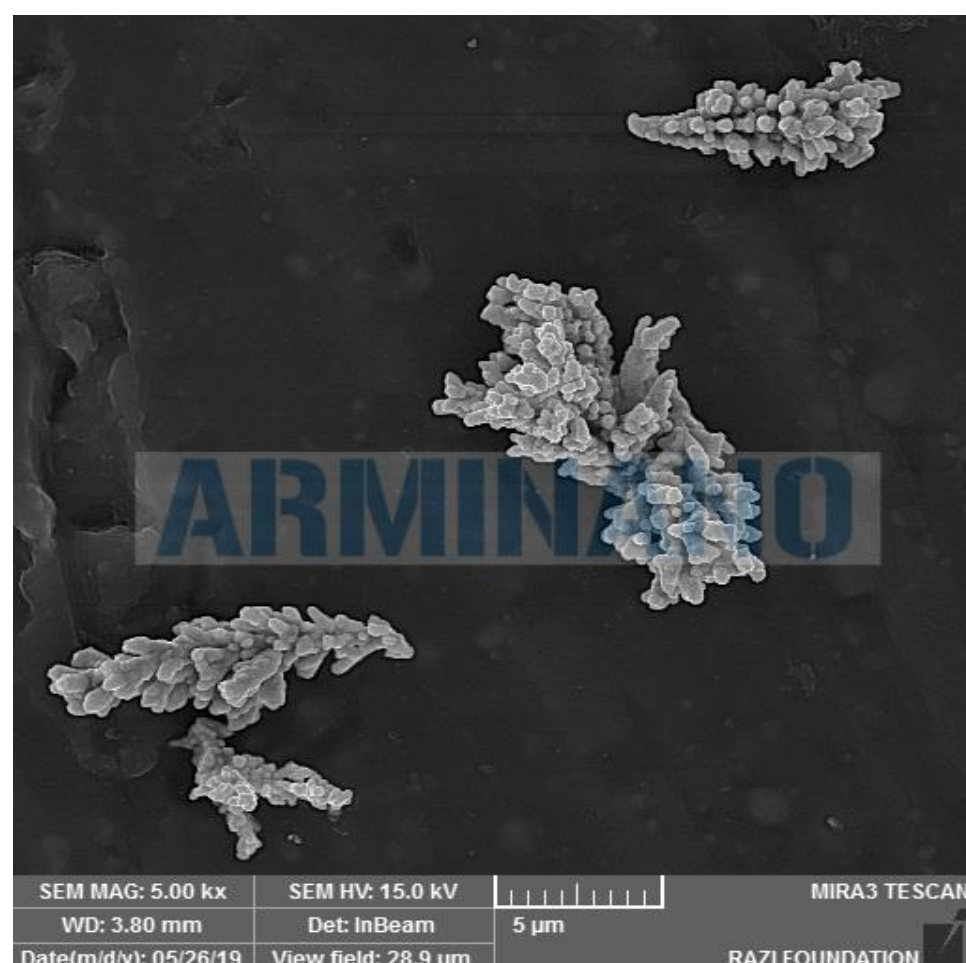
Catalysts, conductive inks and coatings, sintering additives, lubricant additives, heat transfer materials, Integrated circuits, batteries, solar cells, capacitors, radio frequency shielding

Safety:

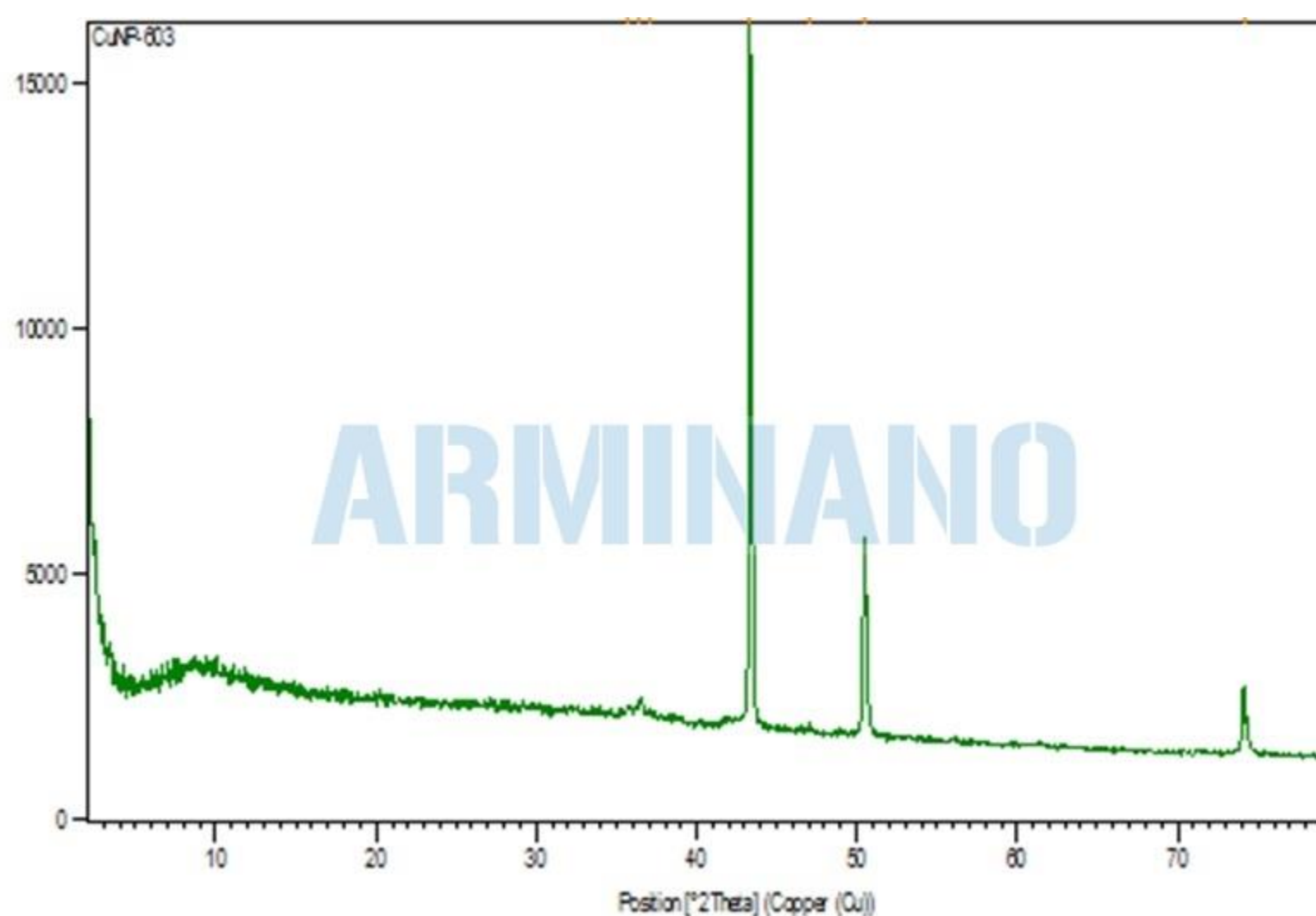
Avoid breathing dust.
Always use protective gloves and safety glasses.
Wash with soap and water after exposure.
Do not expose to extreme heat or flame.
Refer to MSDS prior to handling this material.



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SEM images of CMP101



XRD pattern of CMP101

Storage:

- Keep it in cool dry place.
- Avoid direct sunlight.
- Do not freeze.
- To avoid oxidation, do not expose to air for so long .
- To disperse nanoparticles sonication could be used.

Shelf life:

When stored as specified the product is stable for at least 6 months.