



Cupric oxide powder

Product introduction

Product description: Copper oxide powder; Copper monoxide.

CAS no.: 1317-38-0

Product specification: Industrial grade, reagent grade.

Product explanation

Molecular formula: CuO

Molecular weight: 79.55

Physic-chemical Properties: Dark brown or black amorphous powder. Relative density of 6.3-6.49, melting point 1326°C. Insoluble in water, ethanol and soluble in dilute acid to produce copper, dissolved in cyanide, ammonium carbonate, slowly dissolve in ammonia and generated complexes.

Product Use: As analytical reagent, such as burned to test carbon oxidatio. also used as oxidizing agent, catalyst, oil desulfurization agent, metal adhesive curing agent and blue glass, blue jewel manufacturing.

Packing & storage: Packed by waterproof bag or cardboard bag with inner plastic bag, sealed and stored in a cool and dry place. Each bag of 25kg.

Executive standard: GB/T 674-78 Enterprise standard



Quality standard

Cupric oxide powder	Reagent grade	Industrial grade
Item	Index	Index
Content(CuO) % ≥	99.0	98.0
Content(Cu) % ≥	79.0	78.0
Insoluble matter in HCL % ≤	0.05	0.02
Chloride (Cl) % ≤	0.003	--
Sulfur compound (SO ₄) % ≤	0.01	--
Nitrogen compound (N) % ≤	0.002	--
Carbon compound (CO ₂ calculation) % ≤	0.02	--
(Fe) % ≤	0.01	--
Cuprous oxide (Cu ₂ O) % ≤	0.05	--
Non-sludging to hydrogen sulfide % ≤	0.20	--



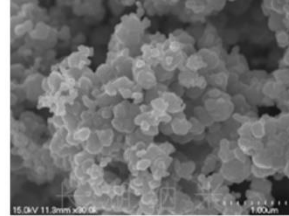
Superfine copper oxide powder

Product introduction

Product description: Superfine copper (II) oxide powder;
Active copper oxide;
Submicron copper oxide powder;
Electronic grade copper oxide.

CAS no.: 1317-38-0

Product Specification: 0.2-1.0 μ m



Product explanation

Molecular formula: CuO

Molecular weight: 79.55

Appearance: Dark brown or black powder

Product use: As continuously added copper source of PCB plating; as an important inorganic materials in area of semiconductor, atalysis, superconductivity, ceramics, and other fields; as catalysts and catalyst supports electrode active material; as porcelain colorants for glass and polishing paste for optical glass; as organic synthesis catalyst, oil desulfurization agent, hydrogenation agent; for manufacture of artificial stones, copper oxides, and rayon; As for analysise gas and determine organic compounds also as burning rate catalyst of rocket propellant.



Packing, storage and shipping: Aluminum foil packaging, eachbag of 2kg, 10kg, or 20kg.

Seal packaging. Store in a cool & dry place. Keep it away from reductant.

Executive standard: Enterprise standard

Quality standard

Item	Purity (%)	Particle size range (μ m)	Average particle size (μ m)	Shape	Specific surface area (m^2/g)	Density (g/cm^3)
Index	99+	0.6	0.6	spherical	5~40	0.2~0.8
Others	Solution rate (sec)	Cl (ppm)	Zn (ppm)	Pb (ppm)	Ni (ppm)	Fe (ppm)
Index	25max	15max	30max	5max	10max	30max



Ultrafine Cuprous Oxide:

Product introduction

Product description: Superfine Cuprous Oxide
 Ultrafine Red Copper Oxide
 Ultrafine Copper Protoxide
 Ultrafine Copper Suboxide

CAS no.: 1317-39-1

Product Specification: Diameter 1~3 μm

Product explanation

Molecular formula: Cu_2O

Molecular weight: 143.08

Appearance: Red or dark red octahedral crystal powder. Become blue quickly in water, gradually oxidized to black copper oxide in wet air.

Product use: For the manufacture of hull bottom antifouling paint (to kill low-level marine animals). Used as fungicides, feed additives, colorants for ceramics, enamels and red glass, also for the manufacture of various copper salts, analytical reagents and used for rectification plating in the electrical industry.

Packing, storage and shipping: Aluminum foil packaging, 2kg or external membrane paper with inner plastic bag, 10kg, 20kg. Sealed packaging. Store in a cool & dry place.

Executive standard: Enterprise standard



Quality standard

Ultrafine cuprous Oxide	Excellent grade
Items	Index
Particle diameter size(μm) \leq	1~3
Total reduction rate (by Cu_2O) \geq	97.0%
Metal Cu \leq	1.0%
Cu_2O \geq	96.0%
Total Cu \geq	86.0%
Cl \leq	0.5%
SO_4 \leq	0.5%
Acetone soluble matter \leq	0.5%
Decrease of reduction rate after stability test \leq	2.0%
Nitric acid insoluble matter (75 μm sieve residue) \leq	0.1%
H_2O content \leq	0.5%
Non-Cu metal \leq	0.5%

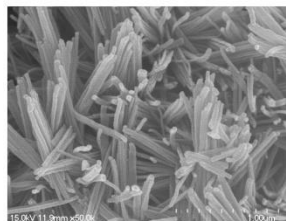
Supported copper oxide nanorods

Product information

Product description: Supported copper oxide nanorods;
Supported nano-copper oxide;
Supported copper oxide nanowires;
Supported nanometer cupric oxide;

CAS no. : 1317-38-0

Product specification: Diameter 40~60nm; Length 1~2 μ m



Product introduction

The supported nano raw pesticide is specially developed for copper preparations, including copper oxide and carrier. The carrier was added when processed copper preparations and no need to add again in the post processing of copper compounds. The shape is nanorod or nanowire, with nano material characteristics of macroeffect, quantum tunneling effect and surface effect, having advantage of stronger bactericidal power, higher suspensibility, better adhesion and longer pesticide effect. Combining with nano technology can greatly improve the quality of copper preparations.



Product explanation

Molecular formula: CuO and carrier

Appearance: Dark brown or black powder

Product use: For nano wettable powder synthesis, no need to smash and process.

Packing, storage and shipping: Kraft or Paper barrel sealed packaging. To store in a cool & dry place.

Executive standard: Enterprise standard

Quality standard

Model	CuO content (%)	Carrier content (%)	Diameter (nm)	Length (μ m)	Shape	Specific surface area (m^2/g)	Density (g/cm^3)
A	90	10	40~60	1~2	nanorods	20~60	0.1~0.5
B	80	20	40~60	1~2	nanorods	20~60	0.1~0.5
C	70	30	40~60	1~2	nanorods	20~60	0.1~0.5



Porous copper oxide nanorods

Product introduction

Product description: Copper oxide nanorods; Nano-copper oxide;
Copper oxide nanowires;
Nanometer cupric oxide;
Nano CuO, CuO nanorods.

CAS no. : 1317-38-0

Product specification: Diameter 40~60nm; Length 1~2μm



Product explanation

Molecular formula: CuO

Molecular weight: 79.55

Appearance: Dark brown or black powder

Product use: As an important inorganic material to be used widely in the fields of semiconductor material, catalysis, superconductivity, ceramics; As a catalyst & catalyst support and electrode active material; For glass and porcelain' s colorant; Used as polishing agent of optical glass; As a good catalyst of organic synthesis; desulfurizing agent and hydrogenating agent for oils; To manufacture artificial stone and other copper oxides; For the manufacture of rayon and used for gas analysis and measuring organic compounds; Also as the burning rate catalyst of rocket propellant; Nano copper oxide powders have better catalytic activity and selectivity than copper oxide powder, and also in other application performance, like magnetic materials, optical absorption, thermal resistance, paint additives, antibacterial materials, sensor materials and so on.

Packing, storage and shipping: Aluminum foil packaging, 1kg, 2kg, 10kg. Seal packaging.

Store in a cool & dry place. Do not contact with the deoxidizer.

Executive standard: Enterprise standard



Quality standard

Item	Purity (%)	Diameter (nm)	Length (um)	Shape	Specific surface area (m ² /g)	Density (g/cm ³)
Index	99+	40~60	1~2	Porous nanorods	20~60	0.1~0.5