COMPANY PROFILE

Dexu New Material (Guangzhou) Co., Ltd. was founded in 2012 in Guangzhou Science City, a leading innovation hub for China's new materials sector. As an innovative enterprise, we specialize in R&D, production and sales of metal corrosion prevention products that are widely used in a variety of industries including automotive, marine, aerospace, semiconductor 3C electronics, new energy, and water-based anticorrosive coating. The products may also be used for industrial lubrication, metal surface treatment, heavy oil stain cleaning, and educational toys. Our major customers include BASF, HP, Henkel, Mattel, MOOSE, China State Shipbuilding Corporation.

The company is spearheaded by a high-caliber R&D team featuring postdoctoral researchers from Tsinghua University and prestigious universities of the U.S. and Europe. Our innovative team currently holds 13 granted patents, has received numerous provincial and municipal innovation funds and awards.

Our 16,000 square meter facility is ISO9001 accredited and includes GMP production workshops and highly automatic and intelligently controlled production lines which enable us to meet global clients' demands for premium quality and customized production.

Innovating Green Materials,
Safeguarding Human Health.

Dexu New Material

Copper Corrosion Inhibitor

Isomeric Borate DX1662

DX1662 is a water-soluble corrosion inhibitor that can form protective films on the surfaces of copper, zinc, and magnesium materials. It offers excellent corrosion protection for copper, zinc, and some degree of protection for magnesium. This product is suitable for use in metal processing and industrial cleaning as a corrosion inhibitor for copper, zinc, and magnesium materials.

Specifications

Product name	DX1662
Ionic type	Nonionic
Appearance（25℃）	Light yellow transparent liquid
Density（20℃，g/cm3）	1.14
pH Value (1% aqueous solution)	8.0-10.0
Stability	1 year
Copper corrosion inhibition (0.5% aqueous solution) Reference：GB/T6144-2010	A

Performance characteristics

- Excellent corrosion inhibition effect on copper materials and can effectively prevent the working fluid from turning green or blue.
- Excellent corrosion inhibition effect on magnesium materials and can effectively prevent corrosion of magnesium materials.
- Good dispersibility.

Industrial Applications

- For metal working fluids and wax removal water, it is recommended to add 2% -5% DX1662 of the original solution.
- Dilute 100-200 times as a corrosion inhibitor for copper and magnesium materials, and soak directly for use.

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Copper Corrosion Inhibitor DX5863

DX5863 is an organic water-based multifunctional metal corrosion inhibitor. This product has good corrosion resistance for copper, magnesium, and aluminum materials, and can improve the salt spray resistance of the system. It is widely used in water-based coatings, copper corrosion inhibitors, and other fields to protect metals from corrosion.

Specifications

Product name	DX5863
Appearance（25℃）	Amber transparent liquid
Density（20℃，g/cm3）	1.10
pH Value (1% aqueous solution)	7.0-9.0
Stability	1 year
Aluminium corrosion inhibition (0.1% aqueous solution) Reference：GB/T6144-2010	A
Copper corrosion inhibition (0.1% aqueous solution) Reference：GB/T6144-2010	A

Performance characteristics

- Good metal corrosion inhibitor which has good corrosion inhibition effects on metals such as copper, magnesium, and aluminum.
- It is liquid at room temperature, easy to mix, and has no powder residue or precipitation.
- It is environmental friendly which does not contain phosphorus and silicon.
- It has a certain resistance of salt spray .

Industrial Applications

- It can be applied to metal working fluids and cleaning agent systems, and it is recommended to add 0.5% -2% DX5863 of the original solution.
- It can be applied to surface treament.Dilute 100-400 times as a corrosion inhibitor for aluminum and copper materials, and soak directly for use.
- It can be applied to water-based coatings to improve salt spray resistance, and the recommended addition amount is 0.5% -1%.