

ZIEHOEL COAT-20

COPPER COATING SOLUTION

PRODUCT DESCRIPTION

At the end of the casting / rolling lines, it is a special water-soluble fluid developed as coating solution to be applied to materials such as copper wire, wire rod etc.

APPLICATION / USAGE

It is used to lubricate the passage in the flow tube of the processed bar to protect copper and copper alloys against staining due to oxidation or other adverse atmospheric conditions.

It is especially used in casting lines such as Outokumpu and Rautomead for the cooling, lubricating and oxidation prevention of copper wire rods.

It can be used by adding %0,4-%0,6 to wire drawing emulsions.

It can be used 2,5-5,0% concentration in continuous casting lines and 5,0-15,0% concentration in vertical casting lines. Copper wires are dipped into this emulsion, dried, and wrapped.

The emulsion temperature should be maintained between about 55 and 70°C. The dipping time should be sufficient for the metal to reach the bath temperature.

Copper wires must always be dry-wrapped. Otherwise, greening may occur with time due to the water remaining on the copper surface. During the drying process, the water on the surface of the copper wire will be more durable and brighter against oxidation of the

copper wires.

The hardness of the water used in the emulsions should be between 0-5 ° dH.

ADVANTAGES / BENEFITS

- It protects copper and copper alloys against the staining during process,
- Protects the processed material against atmospheric conditions during storage and shipment,
- It leaves a protective layer on the material after the usage and protects copper, brass and alloys against external factors and prevents corrosion,
- It gives shine to material,
- Holds on the surface to provide tight winding on the wire.

STORAGE

Protect from direct sunlight and rain. Store in the original closed drums and in covered areas. Storage temperature must be between (+5) -(+40)°C.

HEALTH AND SAFETY

This product is unlikely to present any significant health or safety hazard when properly used in the recommended application. Used or waste product should not be allowed to contaminate soil or water. Used or waste product should be disposed of in accordance with local regulations. For further guidance on product Health and Safety refer to the appropriate Material Safety Data Sheet.

TECHNICAL PROPERTIES	TEST VALUES	TEST METHOD
Appearance	Colorless, clear	-
pH (%5)	9,00	ASTM D 1287
Refractometer Factor	2,5	Hand Refractometer

"The above information is derived from our quality checks. Given values are typical of current production. While future production will conform to our specification, variations in these characteristics may occur. Quality Control Analysis Report for to learn properties of the product that is supplied can give. It does not relieve the purchaser from examining product upon delivery and gives no assurance of the product for any particular purpose. Due to continual product research and development, the information contained herein is subject to change without notification."

00.2022.01.01

