

**ZIEHOEL NLY****HIGH PERFORMANCE ANNEALING OIL****PRODUCT DESCRIPTION**

ZIEHOEL NLY is a high performance oil which is used in the annealing operations of copper and tin wires. It can be mixed with water at any concentration.

**APPLICATION / USAGE**

It is specially developed for copper and tin coated wires. The usage concentrations is between %0,5 and %1.

It is recommended that the system is chemically cleaned with **CLEAN S** or **CLEAN S SUPER** and also mechanically before the preparation of mixture. Effective chemical and mechanical cleaning will prolong the life of the mixture.

It is necessary to take precautions in order to maintain the mixture temperature at 30-40°C range.

The water to be used in the mixture should have a Total Hardness of 5°dH and should not contain any microorganisms. Water containing chemical salts may negatively influence the corrosion resistance of the product.

Demineralized water is recommended to be added to the system in case that water addition is necessary. % Concentration controls with refractometer are recommended to be performed daily. % Concentration range may vary according to the wire type, thickness and drawing speed.

**ADVANTAGES / BENEFITS**

- It has high emulsion stability in case that the emulsion is prepared with water meeting the recommended water specifications,
- It does not stain the material and provides good surface quality,
- It provides the cleanliness of the machines and tools,
- Prevents machines and tools against the corrosion,
- It prevents wear of the machining tools and keeps at minimum levels,
- It provides long service life for the solution due to its resistance to microorganism production,
- It has superior lubricating properties,
- Since its pH value adjusted it does not cause sensitivity or harm on the skin.

**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	Brown, Clear	-
Emulsion Appearance (%5)	Milky	-
pH (%5)	9,0	ASTM D 1287
Refractometer Factor	0,9	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."

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