



TECHNICAL SHEET

CODE: FT-ID-01

VERSION: 1

DATE: 08/01/2021

ELECTRO KLEANEX CO LE

COLD ELECTROLYTIC DEGREASING FOR FERROUS METALS AND ZAMACK

• OVERVIEW

ELECTRO KLEANEX CO LE, is a high alkalinity degreasing with high detergent power, high conductivity and soluble in water, formulated to be used electrolytically on iron, steel and Zamack parts, eliminating the films of grease and dirt not removed in the previous chemical degreasing, leaving the surfaces clean and without stains.

In addition to its degreasing properties, the **ELECTRO KLEANEX CO LE** works efficiently for extended periods of time, placing a continuous filtration system that ensures cleaning properties, reduces the frequency of changes and allows to maintain stable degreasing times in the process

To ensure the quality of the cleaning of the iron parts prior to an electrolytic coating, the following LAY OUT must be taken into account:

UN: 1813

IMO: N/A

• MODES OF USE

PRODUCT PROCESS

Chemical Degreasing by Immersion KLEANEX KS-10

Waterfall Rinse

Pickling acid

Waterfall Rinse

Electrolytic degreasing

Waterfall Rinse

TO BE USED

Running Water

Hydrochloric or Sulfuric Acid plus Inhibitor

Running Water

ELECTRO KLEANEX CO LE

Running Water

Oficina principal en Medellín / PBX: 604 00 22
www.bycsa.co / mercadeo@bycsa.co / info@bycsa.co

Barbosa - Bogotá - Cali Barranquilla - Manizales
Ecuador Guayaquil PBX: (009 593 4) 265 82 21 - 82 22

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Neutralized
Waterfall Rinse

KLEANEX AD
Running Water

When working with Zamack you should not perform acid pickling as it severely attacks the material by hydrogenating it.

1. OPERATING CONDITIONS

IRON ZAMACK

Concentration	80 – 100 g/l 30 – 40 g/l
Temperature	20 - 40 °C 20 - 40 °C
Cathodic Time	1 – 2 Minutes
Anodic Time 1 – 2 Minutes	1 – 2 Minutes
Voltaje 6 - 8 V	6 - 8 V
Anodes Mild steel	Mild steel
	Polypropylene tanks or unprotected iron sheet
Heating	With stainless steel resistors or gas or steam burners.

2. BATH PREPARATION

1. Add to the tank 2/3 of the total volume of water.
2. Add the required amount of **ELECTRO KLEANEX CO LE** carefully to avoid burns due to the heating generated by the mixture and shake slowly.
3. Complete the total volume of water, maintaining the stirring until total homogenization of the mixture. o Verify the concentration of the solution by means of the attached analytical control.

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4. Start degreasing work in the process.

1. ANALYTICAL CONTROL OF THE BATHROOM

- o Take 5 ml of solution in a 250 ml Erlenmeyer or Add 100 ml of distilled water.
- 5. Add 3 drops of 1% phenolphthalein.
- 6. Holder with Sulfuric Acid 1N until change from pink to transparent color

Concentration of ELECTRO KLEANEX CO LE (g/L) = ml consumed in titration x 10.75

The appropriate concentration for Iron is between 60 and 100 g / L and for Zamack between 30 and 40 g / l

1. PHYSICOCHEMICAL SPECIFICATIONS

Aspect	White powder, with oxidation becomes cream
Fitness	Solid
Color	White
pH	12-14
Solubility in water	Complete
Chemical Nature	Alkaline

2. PRECAUTIONS AND WARNINGS

Avoid contact with eyes and direct inhalation, otherwise wash with plenty of water for 15 minutes. If the reaction persists, consult your doctor. Do not eat food during product handling. Keep out of reach of children and pets.

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3. STORAGE CONDITIONS

Store in a cool, dry, ventilated place. Keep closed in its original container, away from sunlight and preferably from any other source of light and heat of long exposure.

4. MANUFACTURED

BYCSA SA. Barbosa (Plant): Corregimiento Popalito. Finca Los Búcaros km 8 Via a Porce. PHONE: (574)4682016

5. CONTACT US

Bogotá PBX: (571) 7427171
Medellín PBX: (574) 604 0022
Cali PBX: (572) 487 8080
Barranquilla PBX: (575) 385 2020
Manizales PBX: (576) 894 4100
Guayaquil (Ecu) PBX: (593) 422 90 329

6. CONTENT UPDATE

Date	Changes made	Responsible	Area
26/05/2022	Upgrading to a new format	Camila Zapata	Quality Control

7. REVISION OF THE DOCUMENT

Date	Revised	Responsible	Area
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CONTROL OF THE DOCUMENTED INFORMATION				
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PREPARED BY	REVIEWED BY	APPROVED BY
Luis Miguel Caicedo Jimenez	Luz Bibiana Sánchez Henao	Isabel Cristina López Arteaga