

PMD (UK) LTD PROCESS DATA

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ECON EK-06/02
ISSUE 3
PREV 2

ECONOCLENSE EK

FINAL STAGE ELECTROCLEANER

INTRODUCTION

PMD Econoclense EK is a specially formulated cleaner designed to be used in conjunction with sodium cyanide. The resulting product is a highly effective, final stage electrocleaner, suitable for use on all metals at room temperature.

The separate addition of sodium cyanide allows the user to adjust and maintain alkali/cyanide ratios to suit individual requirements.

OPERATING DATA

Under normal circumstances Econoclense EK is used with sodium cyanide in the ratio four parts Econoclense EK to one part sodium cyanide.

Typical operating conditions are:-

1. Ferrous materials

Econoclense EK	60 - 80 g/l
Sodium cyanide	15 - 20 g/l
Voltage	4 - 8 volts DC
Current density	2 - 5 A/sq dm (20 - 50A/sq ft)

2. Non-ferrous materials

Econoclense EK	80 - 120 g/l
Sodium cyanide	20 - 30 g/l
Voltage	4 - 6 volts DC
Current density	2 - 5 A/sq dm (20 - 50 A/sq ft)

Treatment Time	0.5 - 3 minutes
Temperature	15-25°C

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SOLUTION MAKE-UP

1. Fill the tank approximately ½ full with water.
2. Add the required amount of Econoclense EK carefully with stirring - CAUTION, heat will be evolved.
3. Add the required amount of sodium cyanide and stir until completely dissolved - CAUTION - CYANIDE.
4. Top up to final volume with water and stir.

MAINTENANCE

(a) Econoclense EK

1. Pipette 25ml of solution into a conical flask.
2. Titrate with N hydrochloric acid using BDH 11-13 Indicator (colour change orange-yellow)

ml acid required x 2.86 = g/l Econoclense EK

(b) Sodium Cyanide

1. Pipette 10ml of solution into a conical flask.
2. Add 20ml of 10% potassium iodide solution.
3. Titrate to first permanent turbidity with 0.1N silver nitrate.

ml silver nitrate required x 0.98 = g/l sodium cyanide.

EQUIPMENT

Tanks Mild or stainless steel, or other materials suitable for use with alkaline solutions.

Heating Electric immersion heaters (mild, stainless steel, PTFE or silica), steam, gas or high pressure hot water.

Temperature control is recommended to maintain optimum performance.

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DISPOSAL

Dispose of in accordance with local authority requirements.

PRODUCT FAMILIES

The following products or product families are referred to in this data sheet:-

<u>Product</u>	<u>Product Code</u>
PMD Econoclense EK	206016

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