

PMD (UK) LTD PROCESS DATA

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ECON S-06/02
ISSUE 6
PREV 5

ECONOCLENSE S

INTRODUCTION

Econoclense S is a highly effective alkaline soak cleaner which will remove a wide variety of soils including mineral oils, greases, machine oils and lanolin from ferrous and non-ferrous metals.

BENEFITS

Suitable for rack and barrel operation

Versatile - ferrous and non-ferrous metals can be cleaned

Economical - long life and effective cleaning

Emulsifies and saponifies oils to prevent oil flotation.

SOLUTION MAKE-UP

Ferrous Metals

Econoclense S 20 to 75 g/l depending on soils.

Non-Ferrous Metals (inc. copper and zinc alloys)

Econoclense S 10 to 60 g/l depending on soils.

OPERATING DATA

	<u>Ferrous Metals</u>	<u>Non-Ferrous Metals</u>
Concentration	20 - 75g/L	10 - 60g/L
Temperature	50 - 90 deg C	50 - 70 deg C
Treatment Time	As required	As required
Agitation	Mild agitation is useful to ensure thorough cleaning.	

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EQUIPMENT

Tanks	Mild or stainless steel or other materials suitable for use with alkaline solutions.
Heaters	PTFE, stainless steel or mild steel immersion heaters or steam coils.

INSTALLATION

It is essential that the tanks to be used for Econoclense S are thoroughly cleaned and leached before any product is introduced.

If in any doubt as to the cleaning procedure please contact PMD (UK) Limited Technical Department.

1. $\frac{3}{4}$ fill tank with water
2. Add the required weight of Econoclense S with stirring to dissolve
3. Make up to final volume with water
4. Heat to operating temperature

MAINTENANCE

The volume of the solution should be maintained regularly by the addition of water. It is recommended that automatic level controllers are fitted to the tank to ensure constant solution concentration and protect heaters.

The solution should be analysed regularly and replenished as necessary. (See analysis method).

The solution should be discarded and a fresh one made-up when the solution is so loaded with absorbed soils that replenishment has no effect on cleaning time.

ANALYSIS METHOD

Reagents

1N hydrochloric acid
Methyl red indicator (dissolve 0.04 g in 100 ml of 20% methanol).

Method

1. Pipette a 25.0ml sample of cooled working solution into a 250ml conical flask.
2. Dilute to 100ml with de-ionised water and add 2-3 drops of methyl red indicator.
3. Titrate with 1N hydrochloric acid to a red end point.
4. Record titre = t mls.

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Calculation

$t \times 3.65 = \text{g/l Econoclense S.}$

Replenishment

For every 1g/L required add 1g/L Econoclense S

DISPOSAL

Dispose of in accordance with local authority requirements.

PRODUCT FAMILIES

The following products or families of products are referred to in this data sheet.

<u>Product Name</u>	<u>Product Number</u>
Econoclense S	206005

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