

ALKALINE CLEANER 45

Dual Purpose Cleaner

INTRODUCTION

Alkaline Cleaner 45 is a highly alkaline cleaner designed to remove a variety of soils from ferrous and non-ferrous materials. It can be used as a soak and/or electrocleaner and is suitable for both rack and barrel.

BENEFITS

- Dual purpose cleaner (soak and electroclean)
- Superior cleaning ability
- Ideal steel cleaning product
- Easily rinsed

SOLUTION MAKE-UP

Alkaline Cleaner 45 40-80 g/L (50 g/L Optimum)

OPERATING DATA

Concentration	40 – 80 g/L
Temperature	122 - 185°F
Treatment Time	30 seconds – 5 minutes
Current Density	25 – 100 ASF (cathodic & anodic)

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Page 1 of 4
AC45-08/23
NA-ISSUE 03

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 Alkaline Cleaner 45 are thoroughly cleaned and leached before any product is introduced.

If there is any doubt as to the cleaning procedure please contact Automated Chemical Solutions.

1. Add water to $\frac{3}{4}$ full tank volume.
2. Add required amount of Alkaline Cleaner 45.
3. Add to level with water, mix and heat to operating temperature.

MAINTENANCE AND CONTROL

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

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

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Page 2 of 4
AC45-08/23
NA-ISSUE 03

ANALYSIS METHOD

Reagents

1. 1.0N sulfuric acid
2. Phenolphthalein indicator

Method

1. Pipette a 25 mls sample of cooled working solution into a 250 ml Erlenmeyer flask.
2. Add 50 ml DI water and mix thoroughly.
3. Add a few drops of phenolphthalein indicator.
4. Titrate to a clear end point with 1.0N sulfuric acid.

Calculation

Alkaline Cleaner 45 (g/L) = mls of 1.0N sulfuric acid X 2.4

Replenishment

For every 1 g/L low add 1 g/L Alkaline Cleaner 45

STORAGE

Store in original containers above 40 °F.

SAFETY

CAUTION! Alkaline Cleaner 45 concentrates and working solutions contain strong alkaline ingredients. Avoid contact with eyes, skin and clothing. Wear chemical handler's gloves, goggles and protective clothing when handling. Read and understand Material Safety Data Sheet before using this product.

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Page 3 of 4
AC45-08/23
NA-ISSUE 03

PRODUCT GROUPS

The following products are referred to in this data sheet.

PRODUCT NAME	PRODUCT NUMBER
Alkaline Cleaner 45	206040

NOTICE

The information and recommendations of PMD (UK), Ltd. and Automated Chemical Solutions, Inc., and its representatives, regarding this product are, to the best of our knowledge, true and accurate. We make no guarantee of results because the conditions of actual use are beyond our control. We assume no liability for damages or penalties resulting from the use of this product or following our recommendations. Our recommendations and suggestions for use of this product are not intended to grant license to operate under or infringe any patent.

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Page 4 of 4
AC45-08/23
NA-ISSUE 03