FERROLEX HD 554 is a liquid cleaner used along with sodium hydroxide and is designed for efficient and heavy duty soak cleaning of steel. It is specially effective in removing oils, greases and difficult to remove soils. The cleaner contains a blend of complexing agents and special detergents which provides excellent oil removing properties and excellent risibility. Though designed specially for steel metals it can also be used for copper and copper alloys by maintaining a low concentration of sodium hydroxide. Though the efficiency of the cleaning bath is optimum at higher temperatures, it can also be used at room temperature, very effectively by providing agitation to the bath.

OPERATING CONDITION
FERROLEX HD 554 : 50 – 100 ml /ltr
Sodium hydroxide : 20 - 60 g/ltr
Temperature : 70 - 80° C
Time : 2 to 5 min. as required
Agitation : Low air or component movement

MAKE UP
Fill a steel tank approximately 2/3 full of cold water. Then carefully add the required amount of sodium hydroxide with stirring, making certain that large quantities are not added at one time. When all sodium hydroxide is dissolved, add the required quantity of FERROLEX HD – 554 with stirring and then dilute the solution by adding fresh water to make up to the working level.

EQUIPMENT:
FERROLEX HD 554 solution may be contained in plain steel tanks with electric immersion heaters or steam coils. A dam overflow can provide a good means of keeping the surface free of the displaced oil and float out residues that may occur from some soils. To improve the cleaning efficiency mechanical agitation can be provided by employing stirrer or provide vertical part movement and this will help to remove the oils and soils effectively within the reasonable time. After cleaning, efficient powerful spray rinses should be provided which will help to dislodge the adherent soils and buffing compounds if any left out after cleaning operations.

CONTROL
FERROLEX HD – 554 solution may be controlled by standard acid-base titration using phenolphthalein as an indicator. The alkalinity can be replenished by adding sodium hydroxide and proportionate quantity of FERROLEX HD – 554 should be added along with sodium hydroxide (same ratio as for make up) to maintain optimum cleaner composition.

WASTE TREATMENT
Spent Ferrolex HD – 554 solutions are alkaline and may contain particles of metal proceed through the operating solution. Spent solutions must be neutralised prior to discharge in to a sewer system. The most economical method of neutralisation is to mix the spent solution with effluent from acid solution prior to entering the neutralisation sump or tank to take advantage of the mutual adjustments of final effluent. Allow the precipitate that forms to settle or filter the solution prior to discharge into the sewer.

NOTE:
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