Hot Soak Cleaner

Description

Hot Soak Cleaner has been developed for the precleaning of components prior to the usual cleaning and plating sequence and may be incorporated into the normal manual or automatic processing line. It has far greater high temperature tolerance than other similar materials that are currently available.

It is extremely effective for the removal of many mineral and other types of oils, greases and impacted polishing residues. These are quickly and efficiently removed by simple immersion. Costly vapour degreasing, in most cases, can be completely eliminated.

Uses

Hot Soak Cleaner is recommended for the removal of all normal polishing compositions and for general degreasing of components in engineering works.

Hot Soak Cleaner is suitable for the treatment of most metals including steel, copper and copper base alloys, aluminum and zinc base alloy.

Solution Make-Up

Hot Soak Cleaner	12 – 30 mls
Water	to 1 litre

Equipment

A welded mild steel tank should be employed. The tank should be provided with means of heating. Galvanised equipment is not suitable for use with this solution. Intermittent mechanical work agitation is advantageous. Gentle air agitation is beneficial. When freshly prepared the **Hot Soak Cleaner** solution may foam. It is, therefore, advisable not to air agitate the solution until it has been in use for a short period and the initial high foam has disappeared.

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Preparation Of The Solution

Fill the tank to approximately two thirds its capacity with clean hot water (at least 40°C) then add the **Hot Soak Cleaner** slowly with stirring. Finally top up with water to working level.

Temperature

The **Hot Soak Cleaner** is operated at a temperature of 70 – 99°C. The higher the temperature used, the quicker will be the cleaning action. Most aluminium alloys may be left in the hot solution for 1 to 3 minutes without any discolouring of the polished surfaces.

1. **Procedure**

   The components should be immersed with movement in **Hot Soak Cleaner** for a period of 1 - 5 mins, depending upon the degree of soiling. They should then be transferred to a cathodic mild alkaline cleaner, such as Zinc Electrolytic Cleaner and then passed through the remainder of the normal cleaning line, such as **Hot Soak Cleaner** electrolytic cleaner or the non-cyanide electrolytic cleaners as appropriate followed by acid dip, swill, plate.

   On withdrawal from the **Hot Soak Cleaner** "water breaks" may be apparent. This effect is removed by the alkaline cleaner and is the normal surface condition, which is produced by the **Hot Soak Cleaner.** It is in no way detrimental to the cleaning cycle.

2. **Ultrasonic Application**

   Hot Soak Cleaner is recommended for use in ultrasonic cleaning tanks, the concentration usually used is 10ml the optimum temperature range is 65 – 70°C Above 70°C efficient cavitation within the liquid will not be achieved.

3. **Analytical Method For Hot Soak Cleaner**

   To a 25 ml sample of cleaner add 3-4 drops of methyl red indicator and titrate with 0.1N sulphuric acid till the colour changes from yellow to orange red.

   ml of 0.1N acid required x 1.44 = mls/1 **Hot Soak Cleaner**

   A 3% solution will, therefore, require 21 mls of 0.1N acid for neutralisation.

Safety, Transport and Storage Information

Please refer to the Safety Data Sheet.

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