Product information Alficlean 139

Alficlean 139

is a weakly alkaline, ecologically acceptable degreasing agent for aluminium and aluminium alloys. Because of its low-foaming properties Alficlean 139 is especially suitable for immersion plants were aluminium substrates are transferred directly into an alkaline longlife etching without a rinse step after degreasing. Therefore the product can be combined with Alfisatin etching products ideally.

Alficlean 139 is distinguished by an excellent cleaning effect and is especially suitable for the removal of grease, oil and wax as well as polishing pastes. The product is weakly emulsifying. Its strips the surfaces only slightly because of low alkalinity.

Alficlean 139 is unproblematic with regard to waste water and comply with the EU regulation on detergents.

Characteristics

Initial quantity	30 - 50 g/l
Duration of treatment	5 - 25 minutes
Temperature	40 - 60°C
Agitation	necessary, by air agitation
Quality control	see paragraph Maintaining concentration
Form of delivery	powder form/ 25-kg-bag

The cleaning effect of the product is strongly influenced by the contamination of the parts with grease and other substances. In individual cases, the optimal operating parameters may vary from the given standard parameters.

Safety precautions

Please observe the usual safety precautions for handling chemical substances. Classifications according to the statutory regulations for transport, storage and handling of the product and other product-specific instructions are included in the EG-safety sheet. Bath solutions, rinse water and concentrates must be treated according to the applicable regulations before entering the sewage system.

Tank material

Heatable steel tanks, possibly plastic-coated, or heat insulated plastic tanks are suitable. When degreasing very oily parts we recommend using a device for cleaning the surface of the bath.

Maintaining concentration

Alficlean 139 is especially distinguished by very high retention times. Increasing the concentration of the bath is recommended if the degreasing effect proves insufficient after approx. 75% of the scheduled time has passed, i.e. if after rinsing the parts with water the surfaces are no longer completely wet.

Maintaining concentration (continuation)

The product may be added as often as required (a new preparation is necessary only if the intervals between the additions decrease considerably because, for example, too many impurifications were introduced into the bath).
The value of total concentration can be obtained with the following analysis instruction, which, however, only describes the salt concentration, but not the degreasing effect.

Determination of concentration: 25 ml of the degreasing are pipetted with a volumetric pipette into a 300 ml Erlenmeyer flask and diluted with approx. 100 ml dist. water. Then several drops of methyl orange solution are added form a dropping bottle. Titration is performed using 1n sulphuric acid from a 50 ml Schellbach burette until the color changes to red.

Used ml 1n sulphuric acid x 7.6 = g/l Alficlean 139

Important, please note: The concentration analysis is only intended for setting up the concentration of an uncontaminated bath. Ageing will increase the risk of the bath changing as a result of impurities (e.g. pollution by alkaline components) and due to reactions with carbon dioxide from the air. In consequence, the analytical values will be further distorted. Should any conspicuous bath reactions become evident, please contact our laboratory where specific test methods are at your disposal.

Alfisid 13/4

The effectiveness of the cleaning process can be further improved by adding Alfisid 13/4. The quantities added should be between 2 and 4 g/l. Depending on the type of oils / grease, addition of Alfisid 13/4 may reduce the treatment time or lower the temperature limit.

We will be glad to give you advice in this area and to send you relevant informations.