



PRODUCT DATA SHEET

WILLOWCHEM CLEANER 60

Introduction

Willowchem Cleaner 60 is a very efficient acid based product suitable for cleaning and degreasing stainless steel and its alloys. The product is capable of removing most oils and soils, including machine coolants and general manufacturing grease's. The product activates the surface of the stainless, leaving a clean and bright appearance.

Willowchem Cleaner 60 is an excellent pretreatment process prior to descaling, pickling and electropolishing.

Equipment

For immersion processing the product should be used with plastic resistance or stainless steel materials for tank construction. Heating systems with stainless steel protective sheaths are employed.

For brush application, brushes with Polypropylene bristles are advisable.

For Spray application, pump action spray devices with Polyethylene, Polypropylene and stainless steel moving parts are employed.

Further information concerning type of suitable equipment may be obtained by your local agent.

Willowchem Technologies can provide basic manual equipment and full turnkey plants that compliment our chemical ranges.

Applications & Process Parameters

Willowchem Cleaner 60 is suitable for Cleaning and Degreasing of components manufactured from wide range of Corrosion Resistant Steels, applications are carried out by brush, Spray and immersion.

Brush & Spray Application: The product is used in its concentrated form and care is to be taken to ensure the complete surface is covered.

Application Time: Depending on degree of cleaning required and ambient temperature a dwell process time of 10 – 30 minutes is sufficient.

The product efficiency is greatly depleted at temperatures below 10° C.

Immersion Application: Best results are obtained through immersion in a heated dilute solution of Willowchem Cleaner 60. The product may be used in manual and automatic stainless steel finishing lines. Typically 10 – 20% v/v is added to water and heated between 30 - 50° C.

Application Time: Depending on degree of cleaning required and using elevated temperature process time of 5 – 10 minutes is sufficient

**PRODUCT DATA SHEET****WILLOWCHEM CLEANER 60****Jigs & Baskets**

Jigging fixtures and baskets may be manufactured from Stainless Steel (Type 304) or Polypropylene or Polyethylene resistant plastics.

Post Treatment

On completion of the process the components should be thoroughly rinsed with clean fresh water. Should the results be insufficient, reapplication of Willowchem Cleaner 60 may be carried out.

Safety Precautions

Willowchem Cleaner 60 is a mixture of acids and additives. Great care must be taken when handling the product and particular attention must be given to existing official safety regulations and current legislation. Personal protective clothing (apron, gloves and goggles) must be worn at all times when handling the product.

The Health & Safety data sheet applicable to the product must be read in conjunction with this operating data sheet.

Environmental Issues

The rinse waters produced from the process rinsing are acidic and should be neutralised. Generally, the waste waters may only be passed through a drainage system with the appropriate approvals and discharge licenses obtainable from the local water authority. Alternatively, the rinse water should be stored and removed by a licensed waste contractor.

Extraction should be employed when operating a heated immersion solution to remove fumes from the operator.

The Cleaner is not an ozone depleting product and does not contain toxic ingredients

Sampling & Process Trials

It is always recommended to carry out sample trials prior to performing a full scale production run to ensure the product is suitable.

The local agent should be able to provide and sample analysis service or alternatively supply an analysis method.

Further information and advice may be obtained from you local agent.