



PRODUCT DATA SHEET

WILLOWCHEM PASSIVATION 70

Introduction

Willowchem Passivation 70 is a product capable of accelerated passivation. The product is suitable for processing of components manufactured from austenitic chrome-nickel-molybdenum steel. The product oxidises the surface of material to enable the full corrosion resistance potential to be obtained.

Willowchem Passivation 70 is an excellent process for machined parts and post treatment of pickling or electropolishing.

The product may be used with a heating system that greatly accelerates the oxidizing process, however, great care must be taken with heated solution of Willowchem Passivation 70 and extraction must be employed.

The product is used mixed 1:1 with water and may be applied by immersion or spray device.

Equipment

The product is transferred to the pump action pressure spray device and may be used neat.

For immersion processing the product mixed with water (1:1) and should be used with plastic resistance tank construction.

Heating systems with stainless steel or PTFE protective sheaths 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.

Pretreatment

Components should be free of grease, soil and scale before spraying or immersion in Willowchem Passivation 70. Immersion or spray application of Willowchem Cleaner 60, followed by pickling with Willowchem Pickle 80 or (Inhibited) 81 may be carried out.

Applications & Process Parameters

Application Time: Typical process times of between 5 – 50 minutes is carried out depending on the level of passivation required.

Higher specialist levels passivation may be carried out with special Willowchem Passivation products at elevated temperature. Please contact your local agent for details.

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

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**PRODUCT DATA SHEET****WILLOWCHEM PASSIVATION 70****Post Treatment**

On completion of the process the components should be thoroughly rinsed with clean fresh water. Final rinsing with hot deionised water greatly reduces water staining and assist with flash drying.

Safety Precautions

Willowchem Passivation 70 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.

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.