

TECHNICAL DATA SHEET

PHOS-PREP PP 931 LOW FOAMING HEAVY DUTY CLEANER

GENERAL

PHOS-PREP PP 931 Low foaming cleaner is formulated for the spray or immersion cleaning of steel or hot dip galvanised steel and Aluminium with the benefit of light etching prior to further pre-treatment. The system is designed to produce a chemically clean surface to give uniformity of reaction during subsequent processing. It is particularly suited to spray operations, because of its low foaming characteristics. Extremely efficient in high pressure zones exceeding 18 psi.

OPERATION

PHOS-PREP PP 931 Cleaner should be made up in clean water at a nominal concentration of 40 to 60 litres per 1000 litres bath volume (i.e. 4 to 6% v/v), although this may be varied if appropriate. Typical make up solutions for aluminium are between 1.6 to 4% v/v to prevent attack of the aluminium substrate. The solution should be operated at temperatures between 45°C and 65°C, processing times would be between 1 and 5 minutes, depending on the amount of cleaning required. Spray pressure should be in the range of 10 to 25 psi

PLANT

The process tank and spray bars should be manufactured from mild steel, due to spray nozzles and pump impellers for spraying are subject to velocities these parts should be manufactured from 316 grade stainless steel, cast iron is suitable for the pump casings and volutes.

Aluminium, Copper, Zinc, or alloys that contain these materials such as brass and bronze are not suitable for use with the PHOS-PREP PP 931

LABORATORY CONTROL

Transfer a 50ml sample of the working bath into a titration flask and add 50ml clean water and a few drops of phenolphthalein indicator solution. Titrate against normal (molar) hydrochloric acid until the deep pink colour disappears.

$$\text{Bath Concentration (points)} = \text{ml M HCl} \times 0.40$$

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