

TECHNICAL DATA SHEET

SURPICKEL – 511

PHOSPHORIC ACID BASED CLEANER FOR DEGREASING, DERUSTING AND PHOSPHATING

Surpickel – 511 is a non-flammable, phosphoric acid type cleaner used with water for removal of oil, grease, organic coatings and oxides from most metals.

Surpickel – 511 can be used hot or cold and can be applied by dipping, brushing, swabbing or spraying. It contains inhibitors which make it safe for cleaning iron and steel and copper base alloys. It is also effective for cleaning and light etching of zinc base die casting and aluminium.

OPERATING CONDITIONS:

Concentration	25 % - 100% by volume of Surpickel – 511
Temperature	Room temperature to 80°C
Time	30 – 60 seconds

CONCENTRATION:

This product is simply diluted in ratio of 1 volume of Surpickel – 511 to form 2 – 9 volumes of water depending on the type of the job to be done. For removal of heavy smut and rust for fast etching of aluminium, a dilution of 1 volume of Surpickel – 511 and 2 volumes of water is recommended. For lighter cleaning jobs and removal of light rust, dilution up to 9 volumes of water is effective.

TEMPERATURE:

Surpickel – 511 should not be heated above 80°C because above this temperature, undue loss of solvents may occurred; 65°C is practical limitation for all most all applications. Aluminium can be etch cleaned from room temperature to 65°C. Zinc is best cleaned at room temperature. Temperature of 65°C – 80°C are sometimes used for stripping of enamels or paints from steel or copper based alloys.

OPERATION:

Work which can be treated in a tank is simply immersed in the Surpickel – 511 solution for a period of time ranging from a few seconds to several minutes depending upon the degree of contamination. In most cases, the mixture can be used cold. However cleaning and oxide removal will be facilitated if the solution is heated to temperatures in the range of 55 – 65°C. After treatment the work should be rinsed in cold running cold water, then in hot water and dried.

For application to large objects, such as tanks and cabinets, the diluted mixture at room temperature is applied by sponge, brush or cloth, whereby the surface is thoroughly wiped with the cleaning solution. In cases of severely rusted surfaces, several applications may be required. After this the work should be thoroughly rinsed with water. It is important that the parts not be allowed to stand for more than a few minutes after brush application of the cleaner to metal surface before rinsing is done. Long standing before rinsing and after application of the cleaner may cause glassy like phosphate coatings to form.

EQUIPMENT:

Tanks made of plastic MS, HDP, fiber glass is recommended. For wiping synthetic clear rags or synthetic sponge are recommended.

CONTROL:

The concentration of Surpickel – 511 solution can be controlled by titrating with a N/10 sodium hydroxide solution using phenolphthalein indicator.

WASTE TREATMENT:

Neutralize with dilute alkali solution before discharging into sewer.

DISCLAIMER:

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