

Protecto Clean 115

PROTECTO CLEAN 115 is a liquid rust inhibitor/cleaner for in-process metal and heat treating operations. It is a liquid alkaline cleaner that provides dry indoor rust inhibition for up to 10 weeks, depending on atmospheric storage conditions.

PROTECTO CLEAN 115 is an environmentally friendly composition. It does not contain nitrite and is free of other undesirable chemicals present in most rust inhibitor/cleaner products. It meets important environmental, disposal, and safety requirements. It has excellent detergency for removing coolants, machining oils, shop soils, and many drawing compounds and quench oils.

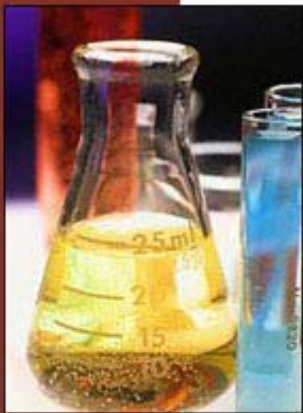
BENEFITS:

- | | |
|---|---|
| Non-Emulsifying - | Floats oils, which allows skimming to extend bath life and facilitates disposal. |
| Non-Foaming - | Allows for use in both heated and unheated cleaning baths and in high-pressure spray washers. |
| Effective in Hard Water - | No adverse effect on performance in water hardness up to 600 ppm. |
| Low pH, No Phosphates,
No Heavy Metals - | Facilitates disposal |
| Bio-Resistant - | Aids in pH control and extends bath life.
Resists rancidity, fungus and odor. |
| Non-Caustic - | Eliminates caustic burns. |
| Nitrate Free - | Prevents formation of dangerous nitrosamines. |
| Silicate Free - | Eliminates silicate residue which can interfere with subsequent operations. |
| Ideal for Heat Treating - | The dry organic film does not interfere with heat treating operations. |

CHEMICAL CHARACTERISTICS:

pH of product	-	10.9
pH of 5% solution	-	10.3
weight/gallon	-	8.6
specific gravity @ 60° F.	-	1.026
Flash Point	-	NONE
Freezing Point	-	20° F.,

If freezing occurs, simply thaw & use



APPLICATIONS:

PROTECTO CLEAN 115 is designed to supply both cleaning and rust protection after machining between in-process fabrication and inspection operations and during storage. It is used in both single and multi-stage spray washers as well as vibratory and ultrasonic units for cleaning and rust protection. It can also be used as a rust inhibitor in both spray and tank applications

PROTECTO CLEAN 115 is ideally suited for heat treating operations. It is free of silicates, nitrites, hydroxides, phosphates and heavy metals that interfere with heat treating operation. It deposits a dry organic film that produces no adverse effects when exposed to high temperatures.

PROTECTO CLEAN 115 provides a splitting chemistry that eliminates the smoke and soot created when emulsified oils left by other cleaners are heated. After cleaning, **PROTECTO CLEAN 115** provides indoor rust protection, giving excellent results in both operations with a single product.

METAL SAFETY: Safe on all metals except magnesium when used under 120^o F. When used over 120^o F. prolonged contact may discolor some aluminum alloys. Avoid use on magnesium.

DIRECTIONS:

CLEANING – RUST INHIBITION in spray washers or vibratory and ultrasonic units:

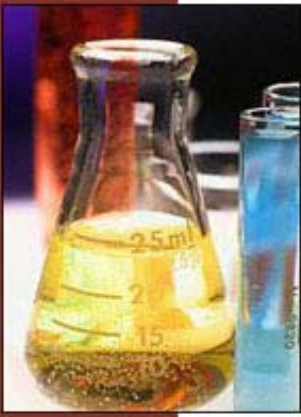
- Concentration: 2 – 5% volume
- Temperature: ambient
- Time: 15 to 30 seconds

Follow with air blow off. Do not rinse. Use concentration depends upon length of time and temperature –Humidity conditions of storage, and amount and type of soils where cleaning is required. Prior to some finishing operations, parts may require removal of the protective coating with warm (120^o F) or aqueous cleaning.

SOLUTION CONTROL:

Dilution of PROTECTO CLEAN 115 may be determined using an optical Refractometer such as American Optical (A 10441).

% by Volume PROTECTO CLEAN 115	10	7.5	5.0	2.5	1
Refractometer Reading (Brix)	2.25	1.7	1.1	.70	.25



HANDLING INFORMATION:

Keep containers closed when not in use. If frozen, simply thaw and use.

Use safety glasses and wear protective clothing to avoid prolonged or repeated contact with concentrated solutions. Contains alkaline and surface active material. Contact with eyes will cause irritation. In case of contact; flood with water for 15 minutes. Clean and launder contaminated clothing before use.

DISPOSAL:

This product is biodegradable and can be treated in most industrial or municipal treatment systems. Consult local regulations.