

## **FPC 100** **METAL CLEANING SOLUTION**

### **A Safe, Powerful, and Fast Cleaner That Does Not Require Ultrasound**

*FPC 100* IS A LIQUID CONCENTRATE THAT PROVIDES A FAST, POWERFUL, WATER-BASED CLEANING FOR OILY METAL PARTS. ITS INGREDIENTS ARE STABLE, SAFE, ENVIRONMENTALLY FRIENDLY AND BIODEGRADABLE.

#### *FPC 100* Features Include:

- ◆ Fast cleaning to water break-free conditions
- ◆ Non-reactive – Does not etch or discolor sensitive metals
- ◆ Safe, no flash point or hazardous substances
- ◆ Effective at low temperatures (115 to 135 degrees F)
- ◆ Biodegradable and environmentally friendly.
- ◆ Economical—low volatility and long effective bath life.
- ◆ No VOC's
- ◆ No Global Warming, fossil fuel or Ozone Depleting Compounds

If you want to clean oily residues such as cutting oils and fingerprints from machined metal parts quickly and safely, *FPC 100* is an ideal solution. The oily contaminants just bubble off and float to the top of the bath-without agitation or emulsification. It safely cleans a wide range of metals such as plain and electroless nickel plated aluminum, plain steel, coated steel, stainless steel, titanium, copper, and brass.

*FPC 100* is good for your operations because it is made from ingredients that are biodegradable, environmentally friendly, and non-hazardous and have no flash point or offensive odor.

*FPC 100* also provides fast cleaning. High volume batch process cleaning on a variety of contaminated metals have shown cleaning to water break-free conditions in a maximum of 15 minutes at 115 degrees F in a 1:4 water solution without agitation. Other tests showed effective cleaning of light oils in a 1:4 water solution in less than 2 minutes on smooth stainless steel at 125 degrees F. Cleaning times will vary with types of surfaces and contaminants. Higher temperatures will generally speed up the cleaning action.

FPC 100 does not require special storage, disposal, or removal and is stable, with a long shelf life at normal room temperature storage. Because it is non-reactive FPC 100 will not etch metal surfaces, even if left overnight in the solution. It also does not combine with the oily contaminants. They can be skimmed off or filtered out for long bath life.

FPC 100 does not have any of the Global Warming or Ozone Depleting compounds listed by the South Coast AQMD. This, together with zero VOCs makes it a good cleaner choice to avoid Government Air Quality regulatory problems now and in the foreseeable future. It also reduces usage of fossil fuels since it does not have any ingredients made from fossil fuels

FPC 100 normally has a slightly alkaline Ph in solution of 7.8. This is to extend the bath life by compensating for the typically low Ph of most contaminants. As these contaminants lower the bath Ph over time it will take longer for the bath Ph to reach unacceptable levels.

<b>SPECIFICATION</b>	<b>NOMINAL VALUES</b>
SPECIFIC GRAVITY	1.01 gm/ml
Ph (in solution)	7.8
<b>FEATURES</b>	
FLASH POINT	NONE
WATER SOLUBLE	YES
VOCs	None (EPA Method 24)
BIODEGRADABLE	100%
CLEANING TEMPERATURE	115 to 135 degrees F

Please contact Environmental Solution Products, Inc for further information concerning your specific needs. Safe effective solutions can be provided for many applications.

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