

Supplier - SMART OIL  
**SmartPhos W5880**  
*Phosphate Additive*  
*Water-Based EP Additives*

### Typical Properties

Appearance	Clear Colourless to Pale Yellow Liquid
Specific Gravity@25°C	1.150 - 1.300
Viscosity@40°C, cSt	500 - 700
pH Value (5% Water Dilution)	1.0 - 3.0
Phosphorus Content, %wt	4 - 7

### Product Description

**SMARTPHOS W5880** is a water soluble phosphate ester, which provides excellent anti-wear and EP properties to the finished coolant. It can effectively improve the product finishing for both ferrous and non-ferrous alloys.

As **SMARTPHOS W5880** is incorporated with low foam emulsifier, it will not produce much foam when blended in formulations.

**SMARTPHOS W5880** is a good at replacing traditional chlorinated paraffin in water-based formulations. Due to its colorless characteristic, it can easily be blended with other components to make up the colorless finished coolant with strong anti-wear characteristic.

**SMARTPHOS W5880** can also be used as a tankside additive for enhanced performance in product finishing, especially for the aluminum alloys.

**SMARTPHOS W5880** can be used for light-duty drawing operations which require oil-free and residual film easily removed.

#### Applications

Soluble Oils / Semi-synthetics /  
 Synthetics  
 Tankside  
 Light Duty Drawing

#### Suggested Treat Rates, %wt

3 - 8  
 0.5 - 1  
 10 - 25

Print date: 21-01-26

**Disclaimer:** Information provided by this website and product page including specifications, applications and formulations are based on tests and data supplied by Smart Oil companies, manufacturers or any of our collaborated companies or suppliers, which are believed to be correct and reliable at the time of writing and data update. However, Smart Oil companies, manufacturers or any of our collaborated companies or suppliers make no warranty or responsibility, express or implied, of any kind regarding products, performance, formulations or applications, as operation conditions and application environments are beyond our control, or products will be modified by action of manufacturers or due to change in market environments. Users are herewith expressly requested to conduct test to determine the suitability of our products or product information before use. Furthermore, we regret that we cannot be responsible for informing customers any changes in specifications, formulations, or other technical contents on this website and product page. Also, We hereby state that all product trademarks other than Smart Oil, including trademarks from our , suppliers are the trademarks belong to the respective companies, or from their sources.