

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

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