

Supplier - SMART OIL
SmartPhos P3212
Phosphate Containing Additives
Tridodecyl Phosphite

Typical Properties

Appearance	Pale Yellow Liquid
Specific Gravity@25°C	0.860 - 0.900
Viscosity@40°C, cSt	14.0 - 18.0
Phosphorus Content, %wt.	>5.3
Acid Value, mgKOH/g	< 160
Flash Point C.O.C., °C	> 105
P _B /P _D , kg+	128 / 400
Std Packaging (NW / GW, Kg)	217.0 / 200.0

Product Description

SMARTPHOS P3212 is a light color, low odor, and high phosphorus product; which has good compatibility with mineral oils, synthetic oils and esters. The product can be applied to the oil-based formulations to booster the anti-wear and extreme pressure characteristics.

SMARTPHOS P3212 has good hydrolytic and thermal stabilities; so it can also be used in water-based formulations. It contains no phenolic compound and has no adverse effect on the environment.

SMARTPHOS P3212 can replace animal fats and chlorinated paraffins in formulations, smoke evolution and tool consumption can hence be reduced. Beside, when the product is used together with sulfur-containing additive, synergistic effect can be attained. The dosage of sulfur compound can be reduced, and product cleanliness and precision can be effectively elevated.

SMARTPHOS P3212 can be applied in formulations of ferrous and non-ferrous metals. It is specially good in rolling oil applications.

Applications

General Application

Suggested Treat Rates, %wt

0.5 - 10

Print date: 29-04-24

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.