

# DeoPhos 228

## AW/EP-Additive

### Description

DeoPhos 228 is a ashless, EP & AW additiv. Superp in combination with light coloured sulfur carriers of our DeoLube products paradigm DeoAdd M 16 and other additives it is possible to formulate lubricants.

DeoPhos 228 gives high performance pressurebility with excellent AW- results.

DeoPhos 228 ist is free of Chlorine, mineral oil and heavy metals (Zinc).

### Application

DeoPhos 228 is a high performance additiv, it is possible to formulate lubricants for several applications, such as water-miscible, non-water-miscible metalworking fluids, multifunctional fluids,hydraulic oils and turbine- and industrial gear oils.

### Recommendations for use

The concentration of DeoPhos 228 should be between 0,05% and 5 % . Avoid permanent storage temperatures over 50°C.

### Typical Physical Properties

<b>Colour</b>	light yellow	amine-neutralized phosphoric acid ester
<b>Phosphorus[%]</b>	7,5 – 7,9	ASTM D 6481
<b>Nitrogen [%]</b>	2,1 – 2,6	ASTM D 6481
<b>Density @ 20°C [kg/m<sup>3</sup>]</b>	1150 - 1250	ASTM D 7042
<b>Kinematic Viscosity @ 40°C [mm<sup>2</sup>/s]</b>	1000- 1500	ASTM D 7042
<b>Flash point COC [°C]</b>	150	ASTM D 92
<b>Copper Corrosion*</b> [*10 % in paraff. oil]	1a - 1b	ASTM D 130

### Benefits

- Sustainable, based on renewable raw materials
- Best performance for a variety of formulations due to selected raw materials
- Reduced cost : higher production rates due to strong lubricity
- Suitable for aluminium and yellow metals
- Pefect combination with DeoAdd M types
- Improvement of AW- performance
- EP- Performance Additive
- Superb for Metalworking fluids
- Listed on LuSC

### Associated products

For optimal results, we recommend the DeoLube portfolio from EP / AW additives to corrosion protection packages. For more information, please contact our Customer Service Center.

### Health, Safety and Handling

Please consult the Safety Data Sheet ( SDS) for information on storage, safe handling and disposal. The conditions or methods of handling, storage, use and dispolsal of the product are beyond our reasonable control – we assume no liability for any ineffectiveness of the product or any injury or damage, arising out of or in connection with these conditions.

### Health and Safety

Safety data sheets are available in accordance with Regulations (EG) Nr. 1907/2006 Annex II and ( EC) No. 1272/2008 .

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