

FUNCTIONAL AW-116

ASHLESS ANTI-WEAR ADDITIVE

APPLICATION:

FUNCTIONAL AW-116 is an oil-soluble anti-wear additive with corrosion inhibitor properties that may be used in formulating lubricants including gear oils and hydraulic fluids. It is completely soluble in vegetable oils, paraffinic oils, polyalphaolefins and other suitable base oils.

COMPOSITION:

FUNCTIONAL AW-116 is an NSF HX-1 registered amine salt of an alkyl phosphate.

| Typical Properties | |
|--|---------------------------------|
| Appearance | Light yellow liquid |
| Odor | Mild amine |
| Specific Gravity | 0.99 |
| Lbs per Gallon | 8.3 |
| Flash Point, COC | 133°C (271°F) |
| Kinematic Viscosity, D445 | 450 cSt at 40°C |
| pH | 3.3 |
| Phosphorus, % | 9.0 |
| Antiwear Performance (0.5% in ISO 22 paraffinic oil) | |
| 4-ball wear at 15 kgf, mm (ASTM D4172) | 0.23 mm wear scar; CoF = 0.0583 |

TREATMENT LEVEL:

FUNCTIONAL AW-116 is allowed up to 0.65% wt for antiwear and corrosion inhibition for NSF HX-1 formulations. For non-NSF formulations higher levels can be used to achieve the desired performance level.

HANDLING:

FUNCTIONAL AW-116 may cause skin and eye irritation and should be handled with suitable personal protection. Fumes resulting from heating of the concentrated form may be an inhalation irritant.

See Safety Data Sheet.



Nonfood Compounds
Program Listed
HX-1 and HX-2
166575

This Technical Data Sheet and the Safety Data Sheet contain information believed to be accurate and reliable. No warranty is made, however, to information beyond the control of FUNCTIONAL PRODUCTS INC. The engineering and management personnel of the user are responsible for determining the suitability of this or any product for any specific application, and this information is offered to them for that purpose.