

DOVERPHOS EP-425



Nonfood Compounds
HX-1

DOVERPHOS EP-425 is a polymeric phosphite ester suitable for machining/grinding of ferrous and non-ferrous alloys. Can be incorporated in neat oils, as well as water-dilutable coolants

DOVERPHOS EP-425 brings both anti-wear (AW) and extreme pressure (EP) to the compounder/blender's formula

Advantages and Benefits

- Light color and low odor
- Non-chlorinated extreme pressure lubrication extends tool life and improves finishes
- Stable in a wide variety of mineral oils, synthetic oils, and esters.
- Extremely low acidity, thus reducing possibility of staining on non-ferrous alloys
- 30% wear scar reduction compared to inactive sulphurised ester
- 30-40% wear scar reduction compared to other phosphorus-containing additives
- Higher efficiency in drawing carbon steel and stainless steel compared to sulphurised additives, chlorinated additives, and other phosphorus-containing additives.
- Equal performance to chlorinated, and sulphurised additives in tapping carbon steel
- Globally registered
- HX-1 approved

TYPICAL PROPERTIES

Property	Result
Appearance	Clear to slightly hazy
Color (ASTM D-1500)	<0.5
Viscosity @ 100F, SUS	3400
Viscosity @ 210F, SUS	500
Viscosity Index	250
Specific Gravity (60/60F)	0.99
Total Acid Value (mgKOH/g)	<0.5
Phosphorus Content (%)	4.5

To avoid product deterioration, always keep the container tightly sealed. Prevent any frost and water ingress. Store in a cool and dry place away from direct sunlight. It is preferable to store the product indoors.

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