

DOVERPHOS 253
Lubricity Additive
Dioleoyl Hydrogen Phosphite

Doverphos 253 is dioleoyl hydrogen phosphite. It has the perfect combination of an oleoyl group for machining characteristics and phosphorus for antiwear properties. **Doverphos 253** is oil-soluble, light in color, and compatible with all common metalworking additives. It also is compatible with typical crankcase additives.

Doverphos 253 is used at levels ranging from 1-10% in straight oil formulations. It can be used with all metals. Below are 4-Ball wear test results - 40kg load & 1200rpm for 60 minutes at 70°C. No residue was seen using **Doverphos 253**.

Product	Formula 1	Formula 2	Formula 3
Paroil 152	10.0	-	-
Mayfree 133	-	5.0	-
Doverphos 253	-	-	5.0
Methyl Ester 165	5.0	5.0	5.0
Base Oil (blends)* 20cSt	85.0	90.0	90.0
Ball	Wear Scar (mm)		
1	0.45	0.34	0.17
2	0.47	0.32	0.19
3	0.48	0.31	0.17
Average	0.47	0.32	0.18

TYPICAL PROPERTIES

Property	Typical Result
Specific Gravity	0.910
Appearance	Amber Liquid
Viscosity @ 25°C, cPs	35
Color, Gardner	6 max
Phosphorus, %	5.3
Copper Strip (24 hours @ 210° F)	1a

Doverphos 253 can become hazy or solidify when exposed to cold temperatures (<32°F; <0°C). If that occurs, gently warm with mild agitation to >60°F; >15°C, or until the product clarifies. No performance detriment is expected.

The information contained on this data sheet is believed to be reliable. Since the conditions of application and use of our products are beyond our control, no warranty is expressed or implied regarding accuracy of the information, the results obtained from the use of the product, or that such use will not infringe on any patent. This information is furnished with the express condition that you will conduct your own tests to determine the suitability of the product for your particular use. (073112)

LGP-11®, LUBE-BOOSTER®, MAYCO®, PAROIL®, SUL-PERM®, SYN-CHEK®, SYNKAD®, CHLOREZ®, CHLOROWAX 40®, CHLOROWAX 50®, DOVERNOX®, DOVERPHOS®, DOVERPHOS HIPURE®, and DOVERPHOS S-9228® are federally registered trademarks of Dover Chemical Corporation.