DOVERGUARD E-35 and E-40

Chlorinated Esters for Secondary Flame Retardant Plasticizers

Doverguard E-35 and **E-40** are patented chlorinated esters that are used in PVC applications as secondary flame retardant plasticizers. **Doverguard E-35** and **E-40** can be used as cost effective replacements of phosphates and phthalates and as an alternative to chlorinated paraffins. They offer improved compatibility, melt processing and increased efficiency. The maximum loading level is formulation dependent.

Additional benefits versus common phthalate plasticizers:

- Acts as a flame retardant
- Lower volatility
- Lower water extractability
- Increased flex strength
- Lower plastisol viscosity
- Not listed on Prop 65
- Based on renewable materials from plant sources (new carbon)
- Not considered a substance of very high concern (SVHC)
- The US-EPA has reviewed Doverguard E-35 and E-40 and in 2018 cleared them for use in all metalworking and plastic applications

PROPERTY	TYPICAL RESULT
Chlorine, %	35-40
Specific Gravity	1.16
Density (lb/gal)	9.6
Viscosity @ 25°C	6
Pour Point (°C)	<-30
Color, Gardner	<2

It is recommended to store Doverguard E-35 and E-40 in temperatures ranging from 80° to 100°F. Darkening of products may result due to prolonged exposure to temperatures exceeding 100°F.

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.

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. (080118)