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TECHNICAL DATA SHEET

LINDRIDE 62 SERIES

The **LINDRIDE 62** series is composed of a group of anhydride blends based on Methylhexahydrophthalic Anhydride. These blends have been specifically formulated to cure epoxy resins to polymers with increased thermal properties, typical of MHPA formulations, but without sacrificing the physical properties of MTHPA formulations.

The **LINDRIDE 62** series of anhydrides are light coloured, low-viscosity liquids which will remain liquid at temperatures below 32°F. They will blend readily with epoxy resins at normal temperatures. In the absence of promoters, the resulting solutions are stable for extended periods of time at room temperature. In the presence of promoters and at elevated temperatures, however, they are converted to highly cross-linked polymers with excellent physical and electrical properties.

The **LINDRIDE 62** series is recommended for use with standard liquid DGEBA resins with an epoxide equivalent weight of 180 - 190. A typical formulation contains 81 - 86 parts of **LINDRIDE 62** per 100 parts of liquid epoxy resin with an equivalent weight of 190.

The **LINDRIDE 62** series anhydrides react with water to yield basically Methylhexahydrophthalic Acid, a high melting solid of low solubility. For this reason it is important that moisture be excluded from the anhydride or its systems.

INDIVIDUAL PRODUCTS

LINDRIDE 62 forms the foundation of the series. It is a blend of MHPA and MTHPA and is recommended where epoxy resins are to be used in a variety of non-repetitive applications or where promoter levels need to be adjusted to attain specific cure rates.

LINDRIDE 65 is pre-catalysed with an imidazole derivative. It is recommended for applications where higher heat distortions are required.

LINDRIDE 66 is pre-catalysed with quaternary amine. This formulation gives particularly good corrosion resistance with DGEBA resins, and in addition, generates low colour during cure.

Letter designations after the **Lindride 65** and **Lindride 66** indicate levels of promoter concentration. These levels are consistent in reactivity with the promoter levels in the **Lindride 5** and **Lindride 6** series.

Other anhydride blends based on MHHPA are also available. Consult your Lindau Chemicals sales representative for further details.

TYPICAL PROPERTIES

	<u>Lindride 62</u>	<u>Lindride 65</u>	<u>Lindride 66</u>
Anhydride Equivalency	165 - 175	165 - 175	165 - 175
Viscosity (cps @ 25°C)	50 - 150	50 - 150	50 - 150
Specific Gravity @ 25°C	1.16 - 1.18	1.16 - 1.18	1.16 - 1.18
Flash Point (TCC)	> 225°F	> 225°F	> 225°F
Freezing Point	< 32°F	< 32°F	< 32°F
Gardner Colour	2	12 - 14	6

LINDRIDE 66 SERIES

PRODUCT SPECIFICATION

<u>Analysis</u>	<u>Lindride 66</u>	<u>Lindride 66K</u>	<u>Lindride 66V</u>
Gel time (minutes) 100°C)	14.0 - 16.0 (min @ 123°C)	16.0 - 18.0 (min @ 100°C)	9.0 - 12.0 (min @
Brookfield Viscosity (cps @ 25°C)	50 - 150	50 - 150	50 - 150
Anhydride Molecular Weight	165 - 175	165 - 175	165 - 175
Gardner Colour (maximum)	6	6	6
Specific Gravity @ 25°C	1.15 - 1.18	1.15 - 1.18	1.15 - 1.18
Flash Point (TCC	> 225°F	> 225°F	> 225°F

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