1250-1251 ALMASOL®

HIGH TEMPERATURE LUBRICANT

The bearing "lifesaver" for high temperature applications.

Bearings operating in or near heat-generating equipment are subjected to temperatures which cause ordinary greases to melt and run, leaving critical bearing surfaces unprotected. LE's 1250-1251 ALMASOL High Temperature Lubricants are designed to provide constant lubrication of bearings at high temperatures where ordinary lubricants would melt and run out, causing bearing failure, downtime and high maintenance costs.

USER BENEFITS:

- **Longer Bearings Life** – means less downtime and all the problems and costs associated with bearing failures.
  - **Resists high temperatures** – carefully selected, heavy paraffinic base stocks and oxidation inhibitors effectively resist oxidation and vaporization at high temperatures.
  - **Won't run out** – non-melting base formulation assures that LE's 1250-1251 will stay in the bearing, providing constant protection.
  - **Reduced wear** – with ALMASOL, LE's exclusive wear-reducing agent, which minimizes friction and withstands high loads and temperatures.
  - **Rust and Oxidation protection** – the ALMASOL coating plus effective rust and oxidation inhibitors give 1250-1251 the ability to deliver complete and long-lasting protection against damaging rust and oxidation which is particularly severe at higher temperatures.
- **Lower Maintenance Costs** -
  - **Fewer bearing failures –** means less repairs, replacement parts and labor.
  - **Less lubricant used** – with 1250-1251's high temperature resistance and non-melt characteristics, frequent lubrication is not a necessity. Longer intervals between lubrication means less lubricant used.
  - **Increased protection** – fewer shutdowns for bearing replacement allows for higher production rates; meaning more **uptime.**
- **Ease of pumpability** – 1251, NLGI Grade 1, is designed for central lubrication systems for easy pumpability.
- **Available NLGI Grades:**
  1250 NLGI 2-1/2
  1251 NLGI 1

TYPICAL APPLICATIONS

- high temperature bearings
- kiln car bearings
- pellet mills
- oven conveyors
- lime kilns
- exhaust fans
- soot blowers
- brick/ceramic kilns
- plastics
- asphalt plants

WHAT IS ALMASOL®?

ALMASOL is LE's exclusive wear-reducing additive which has an affinity for metal similar to polar attraction. It attaches itself to working surfaces in a single microscopic layer, yet it will not build on itself or affect clearances. This microscopic layer possesses tremendous load-carrying capacity, is impervious to acid attack and minimizes metal-to-metal contact and the resulting friction and wear. When added to LE lubricants, it gives an extra dimension of protection available in no other lubricants.

LUBRICATION ENGINEERS®, Inc
LEADERS IN LUBRICANTS

LE Products manufactured under an ISO 9001:2000 Certified Quality System

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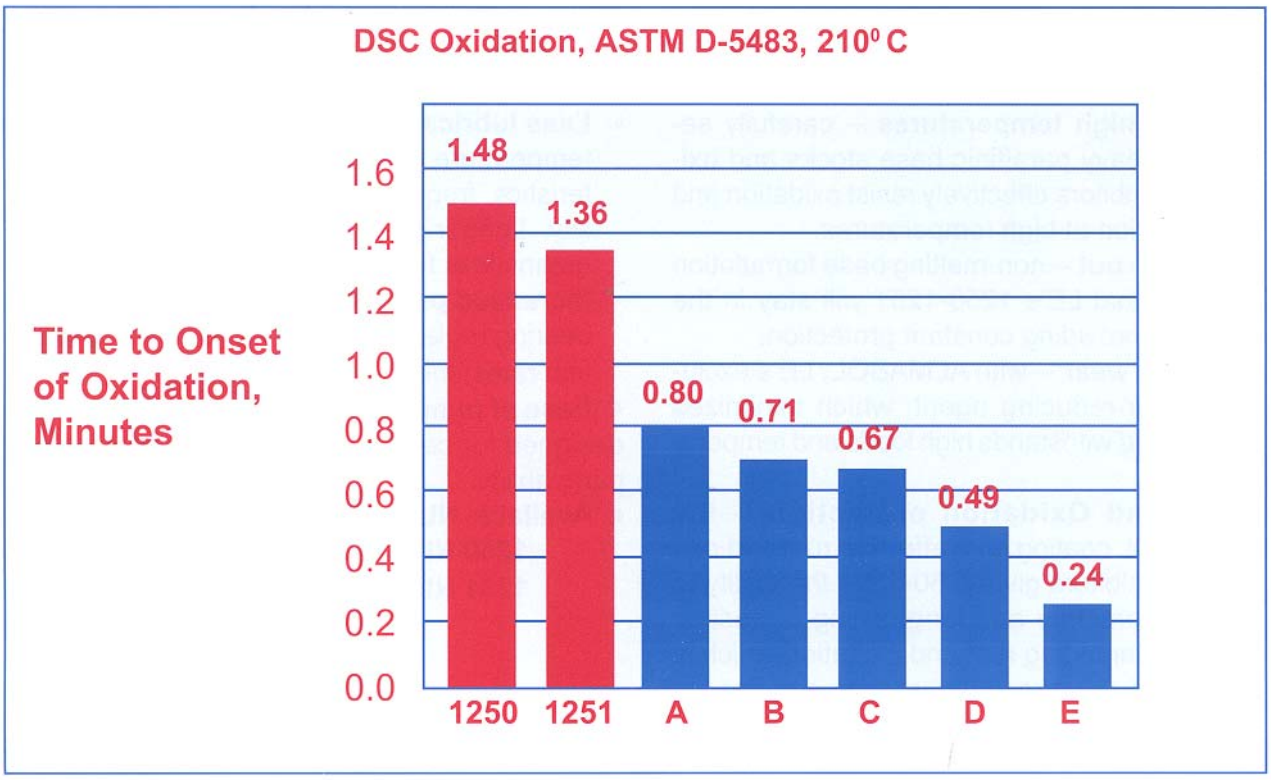
DIFFERENTIAL SCANNING CALORIMETRY DSC

Differential Scanning Calorimetry (DSC) is a sophisticated technique for evaluating the oxidation characteristics of a sample of lubricant in a static condition. It is a very rapid and reproducible method that measures the heat flow under controlled conditions. The samples are put under pressure in a pure oxygen or air environment and the temperature raised until significant heat flow occurs. This heat flow indicates the onset of oxidation.

The longer the time taken for heat flow to occur indicates a better resistance to oxidation and hence longer lubricant life in the application. Samples may also be run at a fixed temperature and time recorded until the onset of oxidation. While there is no exact correlation to field conditions, several minutes in the DSC test represents several hundred hours in actual operation.



The DSC time to onset of oxidation of LE's 1250-1251 ALMASOL Temperature Lubricant is almost double that of the nearest competitor tested. This test shows the superior resistance to oxidation of ALMASOL High Temperature Lubricant and its ability to last longer in severe high temperature applications.

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