

# ONYX 3232

## *Molybdenum dialkyldithiocarbamate*

### DESCRIPTION:

ONYX 3132 is a multifunctional oil soluble molybdenum dithiocarbamate (MoDTC) which acts as a friction reducer, antiwear and antioxidant agent in variety of formulations. Its unique alkyl group structure allows for improved solubility in less polar base oils which makes it compatible with a wide range of automotive and industrial lubricants.

### APPLICATIONS:

Passenger car motor oil, Heavy duty diesel engine oil, Greases, Industrial oils.

### FEATURES & BENEFITS:

- Excellent solubility at ambient and low temperatures.
- Outstanding friction reduction and aged oil friction retention properties.
- Accelerated film formation tendencies.

### PHYSICAL / CHEMICAL CHARACTERISTICS

Parameters	Test Methods	Specifications	Typical Value
Appearance	Visual	Brown Liquid	Brown Liquid
Molybdenum, % Wt	ASTM D4951	min 9.0	9.4
Sulfur, % Wt	ASTM D4951	min 14.0	14.18
Phosphorus, %Wt	ASTM D4951	min 7.5	7.7
Flash Point, °C	ASTM D92	Report	130

### GENERAL HANDLING INSTRUCTIONS:

Neoprene or nitrile rubber gloves and safety goggles should be worn for handling. Material safety data sheet should be consulted for specific information and for information on health and safety.

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

This product has a tendency upon standing to exhibit some crystallization or gelling. If this happens, the product may be re-liquified by agitation and heating at 40 to 50 °C.