

# ONYX 7003

## Zinc Mixed 2-ethylhexanol & Secondary Butanol Dithiophosphate

### DESCRIPTION

ONYX 7003 is a Zinc Mixed 2-ethylhexanol & Secondary Butanol Dithiophosphate. It inhibits oil's oxidation as well as reduces the wear. ONYX 7003 is used extensively in engine oil formulations to prevent wear of piston rings, cylinder liners, cam and tappets. It has good anti-oxidation and mild extreme pressure performance, fine hydrolytic and thermal stability. In combination with other performance additives, It is used for blending variety of products for industrial and automotive oil applications.

### PHYSICAL / CHEMICAL CHARACTERISTICS

| Parameters            | Test Methods | Specifications | Typical Values |
|-----------------------|--------------|----------------|----------------|
| Flash Point, °C       | ASTM D92     | ≥180           | TBR            |
| Viscosity@ 100°C, cSt | ASTM D445    | -              | TBR            |

### GENERAL HANDLING INSTRUCTIONS

Neoprene or nitrile rubber gloves and safety goggles should be worn for handling. Maximum handling temperature is 60°C. Material safety data sheet should be consulted for specific information and for information on health and safety.

**Temperature Recommendations**

| <b>Unloading:</b>  | <b>Temperature</b> |       |
|--|--------------------|-------|
| Pumping temperature  | 40°C               | 104°F |
| Maximum temperature  | 50°C               | 122°F |
| <b>Storage:</b>  |                    |       |
| Maximum temperature for long term storage                  | 40°C               | 104°F |
| <b>Blending:</b>   |                    |       |
| Max. Base oil temperature for mechanical or in-line mixing | 60°C               | 140°F |

**Equipment Recommendations**

|                       |   |
|-----------------------|---|
| Type of Pump          | Positive Displacement/ Centrifugal                                |
| Type of transfer line | Ball lunched, Insulated, Steam Traced Using 107°C/225F Steam Max. |
| Transfer Line Size    | 2-3inch/5-8cm.  |

**Heat Source**

|              |                        |
|--------------|------------------------|
| Type         | Steam 107°C/225°F max. |
| Storage Tank | -                      |

**NOTE**

If you require further information, please contact your regional Onyx representative.