

FBK TURBINE P 32

Premium Additive Turbine Oil (Combustible Liquid)

FBK Turbine P 32 is a premium turbine oil containing advanced additives, formulated to comply with the 2002 amendment to Japan's Fire Service Act concerning hazardous materials. It is classified as a combustible liquid with a flash point of 250°C or higher.

FBK Turbine P 32 provides excellent quality and performance, making it suitable for lubricating modern thermal power turbines operated under high-temperature and high-pressure steam conditions. In addition to various types of turbines—including nuclear, steam, gas, and hydraulic turbines—it is also widely applicable as a high-quality lubricant for a variety of industrial machinery and for use as a hydraulic operating fluid.

● **Special Features**

1. Flash Point of 250°C or Higher

FBK Turbine P 32 ("P" stands for Plus) has a flash point of 250°C or higher and is classified as a combustible liquid.

2. Excellent Oxidation Stability

FBK Turbine P 32 provides excellent oxidation stability, enabling long service life even under severe operating conditions.

3. Excellent Rust Prevention

Water contamination in a lubricating oil system can cause rust formation within the system, threatening smooth operation. **FBK Turbine P 32** offers outstanding rust prevention performance, helping prevent rust formation even during extended continuous service.

4. Excellent Foam Control

Foaming in lubricating oils and hydraulic operating fluids can occur when oil and air are intensely agitated, when air is drawn in through non-airtight sections of piping, or when dissolved air or other gases are suddenly released from the oil. Therefore, the first priority is to identify the cause of foaming and take appropriate corrective measures. In addition, the oil itself should be capable of rapidly suppressing and dissipating any foam that forms.

FBK Turbine P 32 contains an anti-foaming additive to enhance this property and demonstrates excellent performance in actual service.

5. Excellent Demulsibility and Water Separation

Water contamination in lubricating oil can cause emulsification, which may result in unstable operation. For this reason, oils used in practice should resist emulsification and allow contaminated water to separate readily.

FBK Turbine P 32 provides excellent water separation characteristics, helping suppress emulsification-related problems caused by water contamination.

6. Excellent Viscosity-Temperature Characteristics and Low-Temperature Properties

FBK Turbine P 32 shows minimal viscosity change with temperature and has a low pour point, making it highly suitable for use as a hydraulic operating fluid as well.

● **Handling Precautions for Combustible Liquids**

(1) If stored together with hazardous materials in an indoor or outdoor hazardous materials storage area, combustible liquids and hazardous materials must, as a general rule, be segregated by type and stored with a separation distance of at least 1 m between them.

(2) Combustible liquids become classified as Designated Combustible Materials when stored in quantities of 2 m³ (2,000 L) or more, and are subject to regulation under applicable municipal ordinances.

● **Applications**

FBK Turbine P 32 can be widely used for the lubrication of various types of industrial machinery, including the following:

- (1) Nuclear turbines, steam turbines, gas turbines, and hydraulic turbines
- (2) Various generators and electric motors
- (3) Medium- and small-sized compressors, blowers, and pumps
- (4) Light-duty geared speed reducers, machine

tools, and other industrial machinery
(5) Various hydraulic equipment

● Packaging

200-liter drum

● Typical Properties of FBK Turbine P 32

ISO VG	32
Color (ASTM)	L0.5
Density (15°C), g/cm ³	0.8387
Kinematic viscosity(40°C), mm ² /s	34.45
Kinematic viscosity (100°C), mm ² /s	6.385
Viscosity index	139
Flash point (COC), °C	254
Pour point, °C	−20.0
Acid number, mgKOH/g	0.06
Copper strip corrosion (100°C, 3 h)	1
Rust prevention (artificial seawater, 60°C,24 h)	No rust
Demulsibility (54°C, time to obtain 40-37-3 mL), min	10
Copper strip corrosion (100°C, 3 h)	1

Note: The typical properties may be changed without notice. (September 2026)

● Handling Precautions

- **For the handling of this product:** Please read the Safety Data Sheet (SDS) for this oil and the handling precautions listed on the product container carefully before use.
- **Regarding obtaining the SDS:** Please note that Safety Data Sheets (SDS) should be obtained via commercial channels and cannot be provided by the ENEOS Customer Center.
- The properties and performance listed are based on measurements and insights from our testing methods and do not guarantee accuracy or completeness. The typical properties may be changed without notice.