

## Product Data Sheet

### Pyrosafe 46 XD

#### Description and Applications

**Saheli Pyrosafe 46 XD** is a high performance fire-resistant hydraulic fluid designed for use in electro-hydraulic governor control systems of steam turbines, including systems using fine tolerance servo valves. **Saheli Pyrosafe 46 XD** is based on triaryl phosphates manufactured from carefully selected raw materials to provide exceptional hydrolytic and oxidation stability. **Saheli Pyrosafe 46 XD** has inherent high flash point, fire point and auto ignition temperature eliminating the risk of fire potentially caused by mineral oil products. Physical properties, such as foaming, air release and demulsibility are carefully controlled within turbine manufacturers' specified limits.

**Saheli Pyrosafe 46 XD** is approved against Siemens specification TLV 9012 02 and is also recommended for use as fire resistant lubricant in steam and gas turbines.

#### Features and Benefits

- Excellent fire resistance increases safety in fire-sensitive applications.
- Exceptional oxidation stability provides long service life under normal operating conditions.
- Superior hydrolytic stability resists decomposition of ester under the influence of moisture and water in the system.
- Good demulsibility enables rapid separation of oil from water
- Rapid air release minimizes air entrapment in governor control systems and ensures safe operation.

#### Applications

- Electro-hydraulic governor control systems of steam turbines, including systems using fine tolerance servo valves.
- Main bearings in steam and gas turbines, generators and cooling pumps.
- Hydraulic and power transmission systems in steel, mining and other applications requiring fire resistant hydraulic fluids.

#### Specifications

##### SIEMENS TLV 9012 02

Test Parameters	Test Method	Typical Results
Density @ 15°C gm/cm <sup>3</sup>	ASTM D 1298	1.13
Air release @ 50°C, minutes	ASTM D 3427	2
Viscosity @ 40°C (cSt)	ASTM D 445	43.4
Cleanliness level (at filling stage)	ASTM NAS 1638	6
Auto Ignition Temperature, °C	ASTM D 2155	575
Neutralization number, mgKOH/g	ASTM D 664	0.06
Water Content, %	ASTM D 1744	0.06
Pour Point °C	ASTM D 97	-20
Flash Point (COC) °C	ASTM D 92	246
Fire Point (COC) °C	ASTM D 92	368
Emulsion Test @ 54°C, 30 min max	ASTM D1401	Pass

The information contained in this data sheet are indicative and correspond to the date of publication of this document. The above data are based on laboratory tests. It is the reader's interest to ensure whether the most recent version of the data sheet. A safety data sheet is available on request by our sales consultant. For more information, please contact the sales department.

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