



Technical Data Sheet

CASTROL ANVOL PE 46XC

DESCRIPTION:

Castrol Anvol PE 46XC is a high performance, fire resistant hydraulic fluid based on triaryl phosphate esters selected for their excellent hydrolytic stability. It has exceptional anti-corrosion and anti-oxidation properties.

APPLICATION:

Castrol Anvol PE 46XC is designed for use in the critical electro-hydraulic governor control systems of steam turbines, including systems using fine tolerance servo valves. The product conforms to manufacturers' requirements for foaming, air release and demulsibility limits.

BENEFITS:

- Minimises fire risk from high pressure fluid leaks.
- Reduced insurance premiums.
- Extended equipment life.
- Safe to use.
- Reduced maintenance and service costs.
- Longer lubricant life due to the oxidation stability.
- The anti-corrosion additives protect equipment.

FEATURES:

- Virtual elimination of valve erosion.
- Excellent fire resistance.
- Outstanding hydrolytic stability.
- Anti-corrosion and anti-oxidation properties.
- High resistivity and low chlorine content.
- High degree of fluid cleanliness.

APPROVALS:

General Electric	- GEK 46357
Siemens	- TLV 9012 02/01
Alstom	- SBV PR1002
Ansaldo	- 602W917, TGM 1911

COMPATIBILITY:

Anvol PE 46XC is compatible with all metals commonly found in electro-hydraulic control systems. Aluminium should be hard anodised and the use of copper and copper alloys kept to a minimum. In common with all phosphate ester fluids, special seals are required and the following materials are suitable:

- Viton
- Butyl rubber
- PTFE
- Under certain conditions, ethylene propylend rubber

TYPICAL CHARACTERISTICS:

Property	Test Method	Anvol PE 46XC
Product Code		40958
ISO Grade		46
KV @ 40°C (cSt)	ASTM D445	43.4
KV @ 100°C (cSt)	ASTM D445	5
Flash Point - open cup °C	ASTM D92	246
Fire Point °C	ASTM D92	368
Auto-ignition temperature °C	ASTM E659	575
Pour Point °C	IP15/ASTM D97	-20
Air release value @ 50°C (min)	IP313	1
Neutralisation No. mgKOH/g	ASTM D664	0.06
Foaming @ 24°C (ml)		
- tendency		30
- stability		0
Specific Gravity @ 20°C	IP190	1.13
Chlorine content, ppm	Microcoulometric	25

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