

Tectyl Safe 46

Water-Glycol type Flame Retardant Hydraulic Fluid



INTRODUCTION

Tectyl Safe 46 is water glycol type fire-resistant hydraulic Oil that is manufactured using Thinker, Glycol, Water, gas/Liquid rust preventive additives, anti-wear additive, preventive, anti-foam additive, and so on.

Generally, Water glycol type fire-resistant hydraulic oil contains 35~45% of moisture, which brings about Incombustibility.

The mechanism of fire-resistance causes effect by evaporation of moisture that diminished oxygen density in the air.

PHYSICAL PROPERTIES

TEST ITEMS		RESULT	TEST METHOD
Specific Gravity (15/4℃)		1.08	ASTM D 1298
Viscosity (cSt, @40℃)		ISO VG 46	ASTM D 445
Viscosity Index		220	ASTM D 2270
Flame Retardant	Flash Point (℃)	None	ASTM D 92
	Fire Point (℃)	None	ASTM D 92
Color		Red	Appearance
Water		Approx. 40 wt %	-
Rust Test		Pass	ASTM D 665A
Pour Point (℃)		Max. -45.0	ASTM D 97
PH		9.7	ASTM D 6423
Seal, Packing Compatibilities		NBR, Viton, Silicon, etc.	

- All data given in this Product Data Sheet are typical of this Product. It does not however constitute a specification.
- We reserve the right to modify products without prior notice.

FLAME RETARDANT

Type	Mineral Oil	Polyol Ester	Phosphate Ester	Tectyl Safe 46
Flash Point (℃)	150~270	290	240~290	No Flash
Auto ignition point (℃)	230~350	480	540	430
Pipe Cleaner test (number)	3	27	80	66
Hot Manifold test	explosive	Extinguishing after Outbreak of a fire		No Flash
Spraying fire test (require O ₂ %)	12~38	45~55		53~67

Hot Manifold test: This test is applied to MIL-F-7100 Fed 6053. You can check whether or not it ignites by dripping a sample on manifold tube that has reached at 374℃

Spraying Fire test: When spraying oil, the amount of oxygen needed to make the oil ignite is over 50%, and then it is fire-resistant.

FEATURES

- Fire resistant fluid - Minimize Fire Hazard
- Higher Viscosity Index & Lower pour point
- Lower operating temperature
- Wide operating temperature
- Great Shear Stability
- Increase Pump efficiency
- Easy to check oil leakage as Red Color
- Excellent lubricating performance
- Lower harmful to body and environment.

PACKAGE & SAFETY

- Tank/Lorry, Tote, Drum(200LT), Pail(20LT)
- For your safety, Refer to the Material Safety Date Sheet