

TECHNICAL DATA SHEET

VOLTALEF® OIL 10S

Voltalef oils and greases are low-molecular-weight polymers of chlorotrifluoroethylene.

Cl-- (CF2--CFCl) n --Cl

They have unique properties as thermic stability up to + 250°C, excellent properties of chemical resistance, unflammability, low thermic conductivity, excellent properties under high stress.

MAIN APPLICATIONS

- Lubricants

DELIVERY FORM

- Liquid

RHEOLOGICAL PROPERTIES

PROPERTIES	VALUE	UNIT	TEST STANDARD
Absolute viscosity, 25°C (77°F)	1150	mPa.s	
Absolute viscosity, 38°C (100°F)	425	mPa.s	
Absolute viscosity, 71°C (160°F)	55	mPa.s	
Absolute viscosity, 99°C (210°F)	18	mPa.s	
Absolute viscosity, 130°C (266°F)	8	mPa.s	
Kinematic viscosity, 25°C (77°F)	800	mm ² /s	
Kinematic viscosity, 38°C (100°F)	220	mm ² /s	
Kinematic viscosity, 71°C (160°F)	30	mm ² /s	
Kinematic viscosity, 99°C (210°F)	10	mm ² /s	
Kinematic viscosity, 130°C (266°F)	4.5	mm ² /s	
Surface tension	28	mN/m	

THERMAL PROPERTIES

PROPERTIES	VALUE	UNIT	TEST STANDARD
Boiling point	323	°C	
Vapour pressure, 25°C (77°F)	0.00045	mm Hg	
Vapour pressure, 50°C (122°F)	0.0041	mm Hg	
Vapour pressure, 100°C (212°F)	0.145	mm Hg	
Vapour pressure, 150°C (302°F)	2.1	mm Hg	
Vapour pressure, 200°C (392°F)	18	mm Hg	
Volume expansion coefficient	8.4E-10	10E-6 / °K	

VOLTALEF® OIL 10S

OTHER PROPERTIES

PROPERTIES	VALUE	UNIT	TEST STANDARD
Acid value	<0.02	mg KOH/g	
Freezing point	0	°C	
Density, 20°C (68°F)	1.96	g/cm ³	ISO 1183-1
Density, 38°C (100°F)	1.93	g/cm ³	ISO 1183-1
Density, 71°C (160°F)	1.88	g/cm ³	ISO 1183-1
Density, 99°C (210°F)	1.84	g/cm ³	ISO 1183-1

PACKAGING

- Available packaging:
- 0.625 L / 21 fl oz aluminum bottle
 - 6.25 L / 1.65 gal aluminum bottle

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