

TECHNICAL DATA SHEET

VOLTALEF® OIL 3A 3S

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)	115	mPa.s	
Absolute viscosity, 38°C (100°F)	50	mPa.s	
Absolute viscosity, 71°C (160°F)	13	mPa.s	
Absolute viscosity, 99°C (210°F)	5.5	mPa.s	
Absolute viscosity, 130°C (266°F)	3.5	mPa.s	
Kinematic viscosity, 25°C (77°F)	60	mm ² /s	
Kinematic viscosity, 38°C (100°F)	25	mm ² /s	
Kinematic viscosity, 71°C (160°F)	7	mm ² /s	
Kinematic viscosity, 99°C (210°F)	3	mm ² /s	
Kinematic viscosity, 130°C (266°F)	2	mm ² /s	
Surface tension	28	mN/m	

THERMAL PROPERTIES

PROPERTIES	VALUE	UNIT	TEST STANDARD
Boiling point	256	°C	
Vapour pressure, 25°C (77°F)	0.026	mm Hg	
Vapour pressure, 50°C (122°F)	0.16	mm Hg	
Vapour pressure, 100°C (212°F)	3	mm Hg	
Vapour pressure, 150°C (302°F)	28	mm Hg	
Vapour pressure, 200°C (392°F)	159	mm Hg	
Volume expansion coefficient	8.6E-10	10E-6 / °K	

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OTHER PROPERTIES

PROPERTIES	VALUE	UNIT	TEST STANDARD
Acid value	<0.02	mg KOH/g	
Freezing point	-45	°C	
Specific gravity, 20°C (68°F)	1.93	g/cm ³	
Specific gravity, 38°C (100°F)	1.9	g/cm ³	
Specific gravity, 71°C (160°F)	1.85	g/cm ³	
Specific gravity, 99°C (210°F)	1.8	g/cm ³	

PACKAGING

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

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