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Low Temperature Bath Fluids Matrix

Properties

Property	PSF-1.5cSt	PSF-2cSt	PSF-3cSt	PSF-5cSt	PSF-10cSt	PSF-20cSt
Chemical family	Polydimethylsiloxane	Polydimethylsiloxane	Polydimethylsiloxane	Polydimethylsiloxane	Polydimethylsiloxane	Polydimethylsiloxane
Chemical name	Decamethyltetrasiloxane	Dodecamethylpentasiloxane	Polydimethylsiloxane	Polydimethylsiloxane	Polydimethylsiloxane	Polydimethylsiloxane
CAS #	141-62-8	141-62-8	63148-62-9	63148-62-9	63148-62-9	63148-62-9
Appearance	clear, colorless	clear, colorless	clear, colorless	clear, colorless	clear, colorless	clear, colorless
Odorless	Yes	Yes	Yes	Yes	Yes	Yes
Hydrophobic	Yes	Yes	Yes	Yes	Yes	Yes
Viscosity @ 25°C	1.5cSt	3cSt	3cSt	5cSt	10cSt	20cSt
V.T.C.	0.46	0.48	0.51	0.54	0.56	0.59
Soluble in water	No	No	No	No	No	No
Pour point	-90°C	-100°C	-70°C	-90°C	-70°C	-60°C
Flash point	63°C	75°C	100°C	135°C	163°C	232°C
Boiling point	194°C	229°C	>200°C	>200°C	>200°C	>200°C
Vapor pressure @ 25°C	1mmHg	1mmHg	1mmHg	<1mmHg	<1mmHg	<1mmHg
Specific heat @ 25°C J/g °C	2.0	1.8	1.8	1.8	1.8	1.7
Thermal expansion cc/cc/°C	0.00134	0.00117	0.00114	0.00112	0.00108	0.00107
Thermal conductivity g/cal/cm/sec °C	0.00025	0.00026	0.00027	0.00028	0.00032	0.00034
Open system Service temperature	Closed system only	Closed system only	Closed system only	-70°C to 65°C	-60°C to 100°C	-50°C to 120°C
Closed system Service temperature	-70°C to 50°C	-80°C to 60°C	-60°C to 90°C	-70°C to 120°C	-60°C to 150°C	-50°C to 220°C