

Thermal H20S

JULABO Thermal H20S is a silicone-based bath fluid.

Working temperature: 0 °C ... +220 °C

Benefits:

- Additional stabilizer
- Excellent heat conductivity
- Minimum odor
- Long fluid life

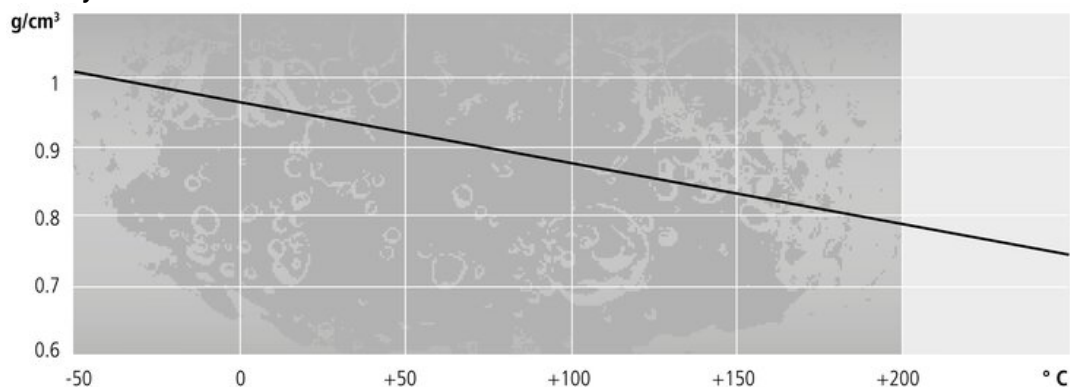
JULABO Thermal bath fluids are carefully selected and long-term tested media with ideal thermodynamic properties for a variety of applications. These bath fluids are ideally suited for temperature applications using JULABO instruments, and ensure safe, reliable operation as well as optimum heat transfer efficiency.

JULABO Thermal bath fluids are silicone based and chemically inert, which means they do not act upon metals like iron, copper, zinc, aluminum, chrome, or nickel. Compared to other fluids, JULABO Thermal bath fluids have an extraordinarily low electrical conductivity. When properly stored, these fluids will last for 12 months or longer since they are not susceptible to climatic influences. Proper use ensures a long service life because minimal cracking and oxidation degradation will occur. When using fluids at working temperatures close to the recommended limit values, we recommend checking or replacing the fluid every 2–3 months. Some JULABO silicone-based bath fluids contain a stabilizer to delay oxidation, which extends the service life of the oil.

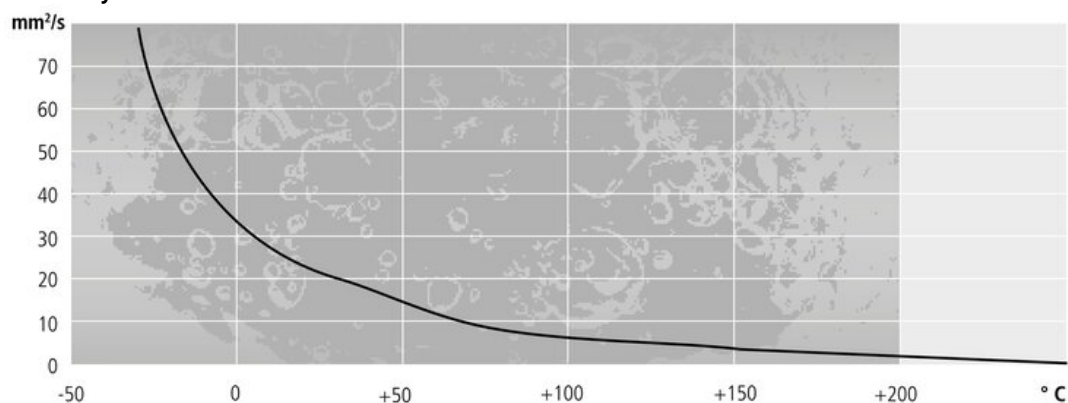
Do not use with silicone tubing! Silicone-based bath fluids can cause silicone tubing to dissolve. Therefore, JULABO metal tubing, JULABO Viton tubing, or JULABO PTFE tubing must be used for temperature control applications involving external systems.



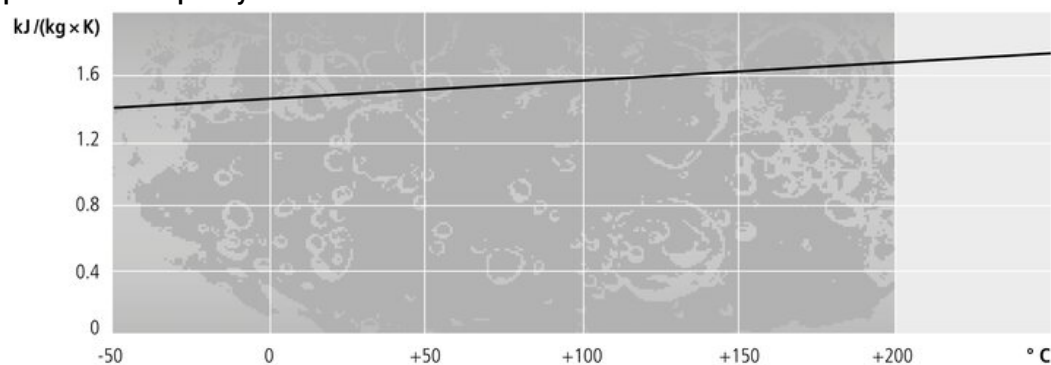
Density



Viscosity



Specific heat capacity



Technical data

Order number 5 liters	8940109
Order number 10 liters	8940108
Working temperature	0 ... +220
Flash point	>200 °C
Fire point	+264 °C
Viscosity (kinematic at 20 °C)	20 mm²/s
Density (at 20 °C)	0.95 g / cm³
Pour point	-70 °C
Boiling point	+424 °C
Ignition temperature	+385 °C
Thermal expansion coefficient	0.00091 (g/(ml × K))
Heat conductivity	0.14 (W/(m × K))
Specific volume resistivity	4x10¹¹ (Ohm × cm)