

## DESCRIPTION:

**ISOTHERM 100-S** is a fluid specially designed to transmit heat. Obtained through a synthesis process, and subjected to rigorous quality controls.

**ISOTHERM-100-S** guarantees an absolute constancy of the physical and chemical properties.

## ADVANTAGES:

High stability and thermal conductivity. Without toxic substances. Great chemical stability. Resistance to polymerization and "cracking". Absence of corrosion in the installation. High specific heat. High flash point. Low freezing-point.

Low viscosity in whatever temperature. Low tension of steam. No toxic.

Suitable for natural and forced convection. Possibility of start in low temperatures.

Work range between -40 & +340 °C.



## FEATURES:

- |   |  |
|---|--|
| ✓ High stability and thermal conductivity.    | ✓ Low freezing point.                          |
| ✓ No toxic substances.                        | ✓ Low viscosity at any temperature.            |
| ✓ Great chemical stability.                   | ✓ Low vapor pressure.                          |
| ✓ Resistance to polymerization and "cracking" | ✓ Non-toxic                                    |
| ✓ No corrosion in the installation.           | ✓ Suitable for natural and forced convection.  |
| ✓ High specific heat.                         | ✓ Possibility of starting at low temperatures. |
| ✓ High flash point.                           | ✓ Working range, between -40 y 340 °C.         |

## TECHNICAL APPLICABLE CHARACTERISTICS AND STANDARDS:

• ASPECT:	pale yellow,	VISUAL
• DENSITY to 15 °C:	0,870 g/cm <sup>3</sup>	ASTM D4052
• SPECIFIC HEAT to 20 °C:	0, 44 kcal/Kg	NTC 3224
• SPECIFIC HEAT to 300 °C:	0, 67 kcal/Kg	NTC 3224
• VISCOSITY to 40 °C:	14-23 cSt	ASTM D445
• VISCOSITY to 300 °C:	0, 4 cSt	ASTM D445
• FLASH POINT °C:	190 °C	ASTM D92
• POUR POINT °C:	- 45 °C	ASTM D97
• BOILING RANGE:	300, 4 – 407, 5 °C	ASTM D 1120-72
• THERMAL CONDUCTIVITY to 20 °C:	0,100 kcal/m h grd	
• THERMAL CONDUCTIVITY to 300 °C:	0,090 kcal/m h grd	
• VAPOR PRESSURE to 200 °C:	40 mm Hg	ASTM D 1267
• VAPOR PRESSURE to 305 °C:	100 mm Hg	ASTM D 1267
• VAPOR PRESSURE to 340 °C:	175 mm Hg	ASTM D 1267
• USE TEMPERATURE:	- 40 °C / +340 °C	

\*Typical values subjected to small variations

## Note:

**ISOTHERM** products are cataloged like no dangerous products.

For more information, please consult the safety data sheet.