



HEAT TRANSFER 200SP

Features

Irving **HEAT TRANSFER 200SP** meets or exceeds the following industry standards:

- GM Quenchometer test
- Cincinnati-Milacron "A" thermal stability and sludging test
- Panel Coker thermal stability deposit test
- Modified S-200 viscosity increase and precipitation test
- RBOT accelerated oxidation tendency test

Benefits

- Circulates fast on cold starts
- Maintains clean heat transfer surfaces
- Good heat transfer characteristics for fuel economy
- Low volatility for minimum evaporation loss
- Non-corrosive

HEAT TRANSFER 200SP is specifically designed for maximum performance in closed circulating heat transfer systems equipped with expansion tank and nitrogen blanket. This arrangement prevents excessive oxidation that would otherwise occur when hot oil contacts atmospheric oxygen. Such systems can operate with Irving **HEAT TRANSFER 200SP** at temperatures up to 300°C.

To achieve this, Irving **HEAT TRANSFER 200SP** uses only pure paraffinic base oil from straight fraction distillation — not blended stocks — that have low aromatic content. Through careful selection, extremely effective additives were found that help this oil offer exceptional resistance to thermal cracking and the formation of sludge and hard carbon deposits. If not properly controlled, these can create hot-spots and block boiler tubes.

In open systems, where contact with air cannot be avoided, maximum operating temperature should be kept below 250°C. This will reduce evaporation of the oil, reduce the risk of fire, and maximize the oil's life given the greater rate of oxidation likely in the presence of air.

The viscosity of Irving **HEAT TRANSFER 200SP** has been chosen to balance the need for high heat transfer and conductivity with the need for low vapour pressure and volatility, high flash point (for safety reasons) and good low-temperature fluidity. Good fluidity allows for faster circulation on start-up, which is particularly important for mobile systems such as portable asphalt plants.

Irving **HEAT TRANSFER 200SP** also makes an excellent quenching oil.



Typical Performance Results

NAME	HT 200SP	
VISCOSITY (D-445)		
cSt @ 40°C	58.7	
cSt @ 100°C	7.8	
cSt @ 150°C	3.1	
cSt @ 200°C	1.7	
cSt @ 250°C	1.12	
cSt @ 300°C	0.80	
VISCOSITY INDEX (D-2270)	95	
POUR POINT (°C) (D-97)	-15	
FLASH POINT (°C) (D-92)	226	
FIRE POINT (°C)	259	
BOILING POINT (°C)	490	
	SPECIFIC HEAT (kcal/kg.°C)	THERMAL CONDUCTIVITY (kcal/m.hr.°C)
@ 50°C	0.507	0.122
@ 100°C	0.513	0.118
@ 150°C	0.519	0.114
@ 200°C	0.526	0.111
@ 250°C	0.533	0.107
@ 300°C	0.539	0.104
	DENSITY (Kg/L)	SPECIFIC GRAVITY
@ 15°C	0.872	0.878
@ 100°C	0.828	0.864
@ 150°C	0.799	0.858
@ 200°C	0.772	0.851
@ 250°C	0.743	0.843
@ 300°C	0.714	0.836

J/g.°C = KJ/Kg.°C = 4.184 x Cal/g.°C

Available Package Sizes

HT 200SP

- 20L (5.28 US gal.) Pail
- 205L (54.2 US gal.) Metal Drum
- 210L (55.5 US gal.) Plastic Drum
- 500L (132 US gal.) Cube
- 1000L (264 US gal.) Cube
- Bulk

