



# GP

GENERAL PETROLEUM

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## Product Data Sheet (PDS)



# GP INGEN HEAT TRANSFER OIL ISO-32 & 46

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# INGEN HEAT TRANSFER OIL

## ISO-32 & 46



### DESCRIPTION:

GP INGEN HEAT TRANSFER OIL are premium quality oil blended with highly refined paraffinic base oil and selected additives for heat treating. It has excellent resistance to thermal cracking and chemical oxidation and are non-corrosive and non-toxic. Ingen Heat transfer oil is designed for use in closed, forced circulation systems equipped with expansion tanks. It can be used up to a bulk temperature of 300°C. The application limits of heat transfer oils depend firstly on circulating speed, and secondly on temperature in closed circuit systems.

### APPLICATIONS:

- Heat treating applications involving quenching or rapid cooling of carbon and alloy steel.
- Heat treating processes where a uniform hardening of steel with minimum distortion is desired.

### BENEFITS:

- Excellent thermal transfer properties
- Good chemical and oxidation stability.
- High Boiling Points and low volatility.
- High flash point and good fluidity.

## **TECHNICAL DATA**

<b>Sr. No</b>	<b>Characteristics</b>	<b>Test Method</b>	<b>32</b>	<b>46</b>
01	Appearance	VISUAL	B & C	B & C
02	Density @ 15 C, g/ml	ASTM D-4052	0.86	0.87
03	Viscosity @ 40 C, cSt	ASTM D-445	32	46
04	Viscosity @ 100 C, cSt	ASTM D-445	5.43	6.82
05	Viscosity Index	ASTM D-2270	104	102
06	Flash Point, COC, C	ASTM D-92	220	226
07	Pour Point, C	ASTM D-97	-15	-15

### **Health and Safety:**

Based on available information, this product is not expected to produce adverse effects on health when used for the intended application, following the recommendations provided in the Material Safety Data Sheet (MSDS). MSDSs are available upon request. This product should not be used for purposes other than its intended use. If disposing of used product, take care to protect the environment.

Due to continual product research and development, the information contained herein is subject to change without notification. Typical Properties may vary slightly.