

# AP THERMOFLOW N32

## HEAT TRANSFER OIL

### DESCRIPTION

**AP THERMOFLOW N32** is high-quality heat transfer oil with highly refined paraffinic base oils (Group II) and additives. **AP THERMOFLOW N32** ensures the best features in indirectly closed heat transfer systems.

### STANDARD

**AP THERMOFLOW N32** meets and exceeds performance requirements:

- ISO 6743-12 Group Q
- DIN 51522

### BENEFITS

- Minimum sludging and fouling
- Improved oxidation and thermal stability
- Excellent heat transfer property
- Extended oil life

### APPLICATION

**AP THERMOFLOW N32** used for closed circulation systems for industrial applications such as agricultural drying, processing industry, chemical plant, textile manufacturing, asphalt mixing plant, and kiln...

- ISO 22 grade is a low viscosity oil used in closed circulatory systems having bulk oil temperatures up to 250°C.
- ISO 32 & 46 are for use in enclosed systems with oil temperatures up to 300°C.
- ISO 68 with high thermal stability are recommended particularly for thermal tanks with oil temperatures up to 320 °C and film temperatures of 340 °C.

### RECOMMENDATION

- The service life of the **AP THERMOFLOW N32** oil depends on the design and usage of the system. The service life can last for many years if the system is well designed and not subjected to extraordinary workloads.
- Need to control the condition regularly because of the variability in oil quality in terms of physical properties. The viscosity, flash point (open and closed cup) and

insoluble impurities content should be monitored.

## TYPICAL SPECIFICATION

Properties	Methods	AP THERMOFLOW N32
Kinematic viscosity @ 40°C	ASTM D445	29-35
Kinematic viscosity @ 100°C	ASTM D445	5.2-5.8
Kinematic viscosity @ 200°C	ASTM D445	1.3-1.6
Viscosity Index	ASTM D2270	Min 100
Flash point, °C	ASTM D92	Min 220
Pour Point, °C	ASTM D97	Max -9
Autoignition Temperature, °C	ASTM D2155	Min 330
Water Content, % V	ASTM D95	Max 0.05
Water Separability @54°C, min	ASTM D1401	Max 15
Foam Tendency, ml	ASTM D892	Max 50/0
Copper Strip Corrosion (100°C, 3h)	ASTM D130	Class 1
Appearance	Visual	Bright & clear

*\* Minor variations in product typical test data are to be excepted in normal manufacturing*

## PACKING

Drum 200 liters, pail/can 18 liters, IBC 1000 liters, tanker truck

## STORAGE

- Storage temperature: Less than 60°C. Avoid direct sunlight.
- Keep away from heat and sources of ignition.

## ENVIRONMENT, HEALTH & SAFETY

- AP THERMOFLOW N32 is unlikely to present any significant health or safety hazard when properly used in the recommended application and good standards of personal hygiene are maintained.
- Avoid contacting skin frequently with the used oil.
- Protect the environment by disposing of used oils properly.

Guidance on Health and Safety is available on the appropriate Material Safety Data Sheet (MSDS), which can be obtained from <http://www.apsaigonpetro.com>

## TECHINCAL ASSISTANCE

For more information, visit our website <http://www.apsaigonpetro.com>

Advice on applications not covered here may be obtained from APSP Technical Team via hotline: **1900 0104**