

# Hi-Tech THERM ADX 10

**LOW TEMPERATURE, EASY PUMPING THERMIC FLUID  
OPERATING TEMPERATURE -56°C TO 250°C**

**R-1001**

## Introduction

**Generation Four Engitech Ltd., Hi-Tech Solution** is 12 years old company standing at second largest company as Importing / Manufacturing and selling of specialized thermic fluid in India. We have our network all over INDIA and also having sales & service points at many countries registered under SAFTA . We serve friendly services to our more than 6000 customers with our world class products. We have a huge list of branded customers with few from India's fortune 500 companies.

## Description

**Hi-tech Solution** is known for its high performance thermic fluids and for its thermo dynamics knowledge . Hi-Tech Therm ADX 10 is a flag ship product in its range for trouble free cooling and heating heat transfer applications. It is used in indirect liquid phase process and required no nitrogen blanketing at expansion tank. It is a synthetic thermic fluid having required additive to maintain a Low viscosity and high molecular stability in both heating and cooling stages. Putting a optional nitrogen blanketing will benefit in protecting oxidation of any thermic fluid and a standard operating system will increase the life and performance of thermic fluid.

## Technical Properties

Characteristics	Test Methods	Specifications
Appearance	Visual	Clear
Composition		Combine Synthetic Hydrocarbon
Kinematic Viscosity		
@ 40°C	ASTM D445	4.03 cSt
@ 100°C	ASTM D445	1.32 cSt
Pumpability		
@ 300 mm <sup>2</sup> /s (cSt)		-41 °C
@ 2000 mm <sup>2</sup> /s (cSt)		-56 °C
Maximum Bulk Temperature		250 °C
Maximum Film Temperature		280 °C
Normal Boiling Point		293 °C
Auto Ignition temperature	DIN 51794	327 °C
Pour Point	ISO 3016	-80 °C
Total Acid No.	ASTM D664	< 0.02 mg KOH/g
Water Content	ASTM E203	90 ppm
Density @ 20°C	ASTM D4052	857 Kg/ m <sup>3</sup>

All the mentioned values are typical which may vary from batch to batch.

## Specific Benefits of Hi-Tech Therm ADX 10

- Trouble free operation at low temperature.
- Comparitively high flash point so minimize fire risk.
- Safe to system as it is non corrosive to common parts used for heat transfer system.
- Low temperature pumpability at 2000 mm<sup>2</sup>/s(cSt) is low as -56°C with ultra low pour point -80°C
- Immpoved heat transfer coefficient help in smooth operation and equal distribution of heat.
- Higher film and Boiling temperature make it safe and longer life working fluid.

## Application

- Specialty and batch chemical production
- Liquefied natural gas (Lng)
- Terephthalic acid (pta)
- Pipeline heating
- Polyamide

