TACBECON®

PrimeMax UTF Series

HEAT TRANSFER FLUIDS

One-stop lubrication solution
Non-stop innovation

PrimeMax UTF 3

High Performance Heat Transfer Fluid with Bulk Temperature of 315°C

Offering greater affordability, **PrimeMax UTF 3** is a synthetic heat transfer medium used in the liquid phase. With a thermal stability markedly superior to petroleum oils used for the same purpose, it guarantees a favourable cost/performance ratio. In addition, its high purity and low water content promises a smooth start-up and encourages corrosion-free operations.

With a viscosity of 300 cSt at -8°C, it pumps more easily at low temperatures than most petroleum heat transfer oils. More and more liquid phase systems and applications that traditionally use steam are opting for **PrimeMax UTF 3**.

TYPICAL PROPERTIES

Typical Property	Test Method	Test Result
Appearance	-	Clear, yellow liquid
Composition	-	Synthetic hydrocarbon mixture
Kinematic viscosity @40°C, cSt	ASTM D 445	19.2
Kinematic viscosity @100°C, cSt	ASTM D 445	3.54
Specific gravity @15.6°C	ASTM D 4052	0.878
Flash point, °C min	ASTM D 92	197
Fire point, °C min	ASTM D 92	220
Auto-ignition temperature, °C	ASTM D 2155	372
Pour point, °C	ASTM D 97	-54
Moisture content, ppm max	ASTM D 6304	250
Average molecular weight	-	325
Pumpability @ 2000cSt, °C	-	-28
Boiling Range, 10%, °C	-	343
Boiling Range, 90%, °C	-	395
Maximum use temperature, °C	-	315
Maximum film temperature, °C	-	335

PrimeMax UTF 5

High Performance Heat Transfer Fluid with Bulk Temperature of 345°C

Promosing an excellent heat transfer performance of up to 650°F (345°C). **PrimeMax UTF 5** synthetic heat transfer fluid offers outstanding high-temperature and excellent thermal stability for the reliable and consistent performance of heat transfer systems in a variety of applications.

PrimeMax UTF 5 performance is proven through many years of industrial experience under a wide range of operating conditions. No heat transfer fluid material in the world comes close.

TYPICAL PROPERTIES

Typical Property	Test Method	Test Result
Appearance	-	Clear, pale yellow liquid
Composition	-	Hydrogenated terphenyl
Kinematic viscosity @40°C, cSt	ASTM D 445	29.6
Kinematic viscosity @100°C, cSt	ASTM D 445	3.80
Specific gravity @15.6°C	ASTM D 4052	1.012
Flash point, °C min	ASTM D 92	184
Fire point, °C min	ASTM D 92	212
Auto-ignition temperature, °C	ASTM D 2155	374
Pour point, °C	ASTM D 97	-32
Moisture content, ppm max	ASTM D 6304	150
Average molecular weight	-	255
Pumpability @ 2000cSt, °C	-	-3
Boiling Range, 10%, °C	-	348
Boiling Range, 90%, °C	-	392
Maximum use temperature, °C	-	345
Maximum film temperature, °C	-	375

PrimeMax UTF 7

Food Grade Heat Transfer Fluid

Nonfood Compounds (HT-1) Registration #158707

Meeting most regulatory and environmental requirements, **PrimeMax UTF 7** guarantees reliable heat tansfer up to 600°F (315°C). **PrimeMax UTF 7** is formulated to meet the FDA 21 CFR 172.878 for incidental food contact requirements and is NSF HT-1 certified.

TYPICAL PROPERTIES

Typical Property	Test Method	Test Result
Appearance	-	Colourless liquid
Composition	-	White mineral oil
Kinematic viscosity @40°C, cSt	ASTM D 445	23.5
Kinematic viscosity @100°C, cSt	ASTM D 445	4.02
Specific gravity @15.6°C	ASTM D 4052	0.865
Flash point, °C min	ASTM D 92	200
Fire point, °C min	ASTM D 92	230
Auto-ignition temperature, °C	ASTM D 2155	350
Pour point, °C	ASTM D 97	-29
Average molecular weight	-	355
Pumpability @ 2000cSt, °C	-	-22
Boiling Range, 10%, °C	-	330
Boiling Range, 90%, °C	-	415
Maximum use temperature, °C	-	315
Maximum film temperature, °C	-	330

SUGGESTED APPLICATIONS

UTF 3

- Extruders
- Heating of calendar rolls
- Barge heating
- Chemical process heating
- Tracing of lines at storage terminals
- Waste heat recovery systems
- Solar energy systems and power plants

UTF 5

- Resin manufacture
- Phthalic anhydride distillation
- Polyester film and fibre production
- Deodorising fatty acids
- Phenol production
- Polyamide polymerisation
- Extrusion
- Preheating combustion air in the steel and petrochemical furnaces

UTF 7

- Chemical reactors
- Electric heaters
- Deodorising fatty acids
- Phenol production
- Polyamide polymerization and extrusion
- Food and chemical processing applications

Contact TACBECON®

Notice

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