BestSolv™ *Zulu*

Engineered Fluid - Heat Transfer - Immersion Cooling

Technical Data Sheet

Features and Benefits

- Non-Flammable
- No Surface Residue
- Low Surface Tension
- Low Viscosity
- Low GWP
- No Flash Point

Applications

As a fluoroketone, Best Solv Zulu is reactive with water and must be used in a closed system to prevent interaction with any water source used elsewhere in the system, or in the surrounding environment

Introduction

BestSolv™ Zulu is a solvent specifically designed for single and two phase immersion cooling applications. Its mixture of physical, chemical properties, and environmental properties exceed many application requirements

Properties such as a dielectric constant of 1.8 @ 1kHz and a dielectric strength > 40 kV, make Best Solv Zulu safe for contact with most electronics and computing processes in sealed heat transfer and immersion cooling applications. Material compatibility also includes stainless steel, aluminum and most other metals.

Industries Served

- Aerospace
- Military
- Electronic
- Semiconductor
- Optical
- Medical device

Physical and Chemical Properties

Property	Value
Boiling Point	49°C
Pour Point	-108°C
Specific Gravity	1.60 g/mL @ 25°C
Vapor Pressure	40.9 kPa @ 25°C
Critical Temperature	169°C
Critical Pressure	1.88mPA
Viscosity	0.64cPs @ 25°C
Specific Heat	1103 J/kg*K@ 25°C
Latent Heat of Vaporization @ Boil Point	88-kJ/kg
Dielectric Constant	1.8 @ 1kHz
Dielectric Strength	48kV
Flash Point	None

Data complied from published information. Not for specification purposes

BestTechnology

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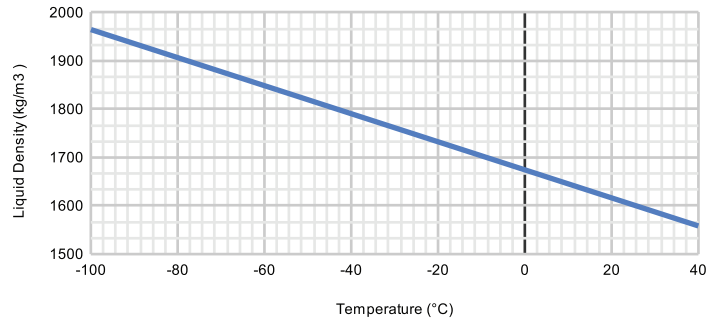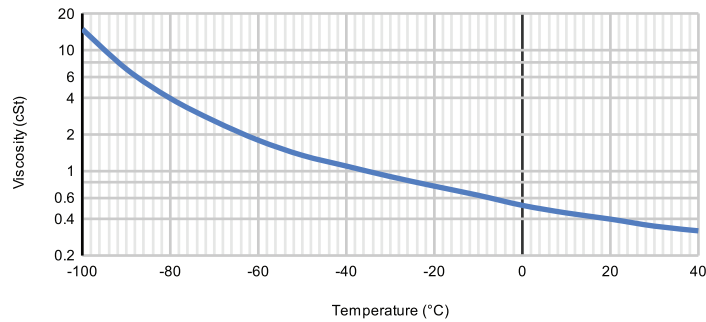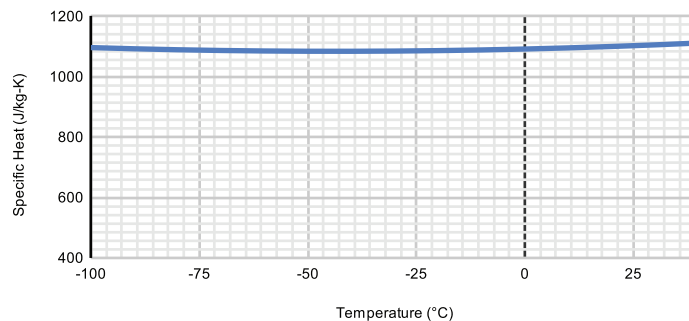- www.BestTechnologyInc.com/BestSolv

BestSolv Zulu
Liquid Density vs Temperature

BestSolv Zulu
Viscosity vs. Temperature

BestSolv Zulu
Specific Heat (J/kg-K)

BestSolv™ Zulu

Storage and Handling

Based on Pensky-Martens Closed Cup (ASTM D93) or Tag Closed Cup (ASTM D56) methods, BestSolv Zulu exhibits no flash point and is not classified as flammable by OSHA or DOT. As with almost all halogenated solvents, flammability limits exist in the presence of a high ignition energy source.

BestSolv™ Zulu is best stored inside a clean, dry area and out of direct sunlight or other heat sources. It is thermally stable and will not oxidize or degrade during storage under normal conditions. To prevent leakage or potential rupture of the container due to contraction / expansion and pressure changes, do not store below 32 °F (0 °C) or above 90 °F (32 °C)

Environmental Properties

- SNAP EPA accepted substitute for ozone depleting substances
- Not subject to SARA Title III (EPCRA) reporting regulation
- Non hazardous air pollutant (HAP) / Not regulated under NESHAP
- Low global warming potential (GWP)
- Low / zero ozone depletion potential (ODP)

Health and Safety

Reference the SDS for details on:

- Individual chemical components
- Disposal
- Transportation
- Regulatory requirements
- Other information

Product Use / Warranty

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