



The Only Industrial Roller Source You'll Ever Need

Paratherm HE[®] vs. Mobiltherm 603*

Here's a comparison of the Paratherm HE high-efficiency heat transfer fluid with the Mobiltherm 603:

Paratherm HE vs Mobiltherm 603										
Fluid	Inside Film Coeff. (a)			Max Bulk Temp °F	Flammability (°F)			Pour Point (°F)	Coeff. of Expansion (%/°F)	Vapor Pressure psia @ 600°F
	400°F	500°F	600°F		Flash Pt (coc)	Fire Pt. (coc)	Autoignition ASTM D-2155			
Paratherm HE	283	338	392	600	440	500	700	0	0.0592	1.7
Mobiltherm 603	304	354	(c)	550	380	(b)	670	25	0.0531	2.9

(a) Calculated from data in latest manufacturer's literature at 400, 500 and 600°F in 2" Schedule 40 pipe at 8 linear ft per second.
 (b) Not stated in the literature
 (c) Maximum bulk temperature is 550°F.

Bulk Temperature: The HE fluid is rated for service to 600°F. The Mobiltherm 603 is rated to 550°F.

Flash Point: HE fluid much higher. However, nearly all heat transfer fluids (including Mobiltherm 603) are routinely operated well in excess of their flash and fire points. See our data sheet, Significance of Flash and Fire Points in Heat Transfer Fluids.

Toxicity: The HE fluid is rated for "incidental contact with food" HT1 by NSF.

Environmental: A Water Accommodated Fraction of the HE fluid has passed Bioassay testing with Fathead minnow, water flea and Seawater shrimp. **Environmentally Stable.**

Vapor Pressure: The HE fluid has a much lower vapor pressure. **The higher vapor pressure in Mobiltherm 603 (not recommended) can lead to sludge build up that will cause increased preventive maintenance costs.**

Menges Roller is a proud distributor of Paratherm HE and strongly encourages HE use in all Oil Based Heat Transfer Rollers for longer running rollers.

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* Mobiltherm is a registered trademark of the Mobil Oil Company.