

UCON Heat Transfer & Process Fluids



UCON™ fluids offer better heat transfer characteristics than petroleum oils of comparable viscosity. They offer excellent thermal and oxidation stability and are widely used in open, vented heat transfer systems. UCON fluids feature high flash and fire points and, when used properly, have minimal tendency to sludge, carbonize, and foul heat transfer surfaces. They have higher thermal conductivity than petroleum oils and contain no PCBs.

UCON fluids are uniquely suited for use in the heat treating or processing of plastics, elastomers, thread, or fabricated parts where compatibility of the fluid with the processed part is important. UCON process fluids transfer heat rapidly and uniformly and can be used in open baths up to 204°C. Because they are water soluble, only a water rinse is required to remove residual fluid from parts or other processed material.

Products & Properties†

	Method	Closed Circulating Systems		Open Bath Systems
		UCON Heat Transfer Fluid 500	UCON Process Fluid WS	UCON Heat Transfer Fluid 50-HB-260-Y3
Viscosity, Centistokes				
210°F	ASTM D 445	11.5	11	11.3
100°F	ASTM D 445	61	56	56
0°F	ASTM D 445	2480		2200
-20°F	ASTM D 445	9800		9000
Viscosity Index	ASTM D 2270	200	150	150
Pour Point, °C (°F)	ASTM D 97	-48 (-55)	-54 (-66)	-51 (-60)
Flash Point, Open Cup, °C (°F)	ASTM D 92	302 (575)	287 (550)	262 (505)
Spontaneous Ignition Temperature, °F	ASTM D 92	752	750	750
Coefficient of Expansion				
20°C		0.00079	0.00078	0.00077
55°C		0.00082	0.00080	0.00080
Specific Gravity, 20/20°C	ASTM D 4052	1.038	1.037	1.039
Suggested Temperature Range, °F		30 - 500	30 - 392	30 - 500
Comments		Water Soluble, High Flash Point, Low Coking Tendency	Water Soluble, Low Staining Tendency	Excellent Non-staining Product; Good for Curing White or Light Colored Plastics

†Typical properties, not to be construed as specifications.
Sales specifications available on request.

To Learn More, Call...

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Published October 2005.



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