

Typical Physical Properties of UCON™ Refrigeration Lubricant 993

Physical Property	Typical Values
Chemical Family	PAG
Approximate ISO Viscosity Number	ISO 68
Viscosity at 40°C (cSt) at 100°C (cSt)	80.1 16.4
Viscosity Index	221
Pour Point (°C)	<-40
Flash Point – COC (°C)	>200
Total Acid Number (mg KOH/g)	<1
Specific Gravity (20/20°C)	1.02
Density at 20°C (g/cc)	1.02
Moisture	1000 ppm max
Color (ASTM D-1500) (Gardner) (Platinum-Cobalt)	<0.5 <1 50-100
Separation Temperature – high/low (°C) Wt % PAG in R-134a 2% 5% (extrapolated from solubility curve) 10% 20% 50%	 54/<-40 45/<-40 43/<-40 44/<-40 >95/<-40
Sealed Tube Stability with R-134a (14 days; 175°C; Al, Fe, Cu catalysts)	Clear colorless fluid. No precipitate. All metals shiny.