



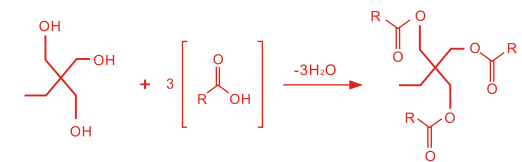
Histar[®]

Product

H- and C- Series

Item	SPECIFICATIONS						TYPICAL CHARACTERISTICS					
	Chemical Name	Appearance 50°C	Color G	Acid Value	Water Content(%)	Specific Gravity (15°C / 4°C)	Viscosity [1] 40°C	Viscosity [1] 100°C	Viscosity Index	Cloud Point (°C)	Pour Point (°C)	Flash Point (C.O.C, °C)
2019	NPG ₂ -di-Oleate	Yellow Liquid	4▼	0.5 max	0.5 max	0.89-0.91	25	6.2	214	-15▼	-25▼	>260
3812	TMP ₃ -tri-Fatty acid ester	L. Yellow Liquid	1▼	0.5 max	0.5 max	0.91-0.94	20	4.2	114	-30	-30▼	>250
3010*	TMP ₃ -tri-Fatty acid ester	L. Yellow Liquid	3▼	0.5 max	0.5 max	0.91-0.94	25	5.1	137	-5	-10	>250
3012*	TMP ₃ -tri-Laurate	L. Yellow Liquid	1▼	0.5 max	0.5 max	0.92-0.94	35	6.9	161	5▼	-7	>260
3012NA	TMP ₃ -tri-Coconate	Yellow Liquid	4▼	4.0 max	0.5 max	0.90-0.94	36	7.1	164	-3	-13	>250
3019	TMP ₃ -tri-Oleate	Yellow Liquid	4▼	0.5 max	0.5 max	-	44	9.2	198	-20	-35▼	>270
4018*	PE ₄ -tetra-Stearate	L. Yellow Liquid(70°C)	1▼	10 max	0.5 max	0.91-0.92	-	-	-	-	62(mp)	>260
4810*	PE ₄ -tetra-Fatty acid ester	L. Yellow Liquid	4▼	1.0 max	0.5 max	0.94-0.96	32	6.1	141	-8	-10	>250
4019	PE ₄ -tetra-Oleate	Yellow Liquid	4▼	0.5 max	0.5 max	0.92-0.94	62	12.1	180	-5	-25	>270
3681*	TMP ₃ -Complex ester	Yellow Liquid	4▼	3.0 max	0.5 max	0.95-1.05	75	11.2	140	-30	-35▼	>250
3689*	TMP ₃ -Complex ester	Yellow Liquid	4▼	3.0 max	0.5 max	0.99-1.10	320	31.8	138	-20	-20▼	>250
4686*	PE ₄ -Complex ester	L. Yellow Liquid	4▼	4.0 max	0.5 max	-	650	-	-	-	-	-

H- and C- Series



Main Applications

- High temperature textile fiber lubricants
- Automotive engine lubricants
- Speciality high performance greases/chain lubricants
- Multigrade gear lubricants
- Compressor lubricant
- Metal-working lubricant
- Power transmission fluids
- Refrigerator lubricating oils
- Lubricants for metal rolling oils