



"The First in Synthetics"®

Industrial Synthetic Lubricants

PRODUCT DESCRIPTION

AMSOIL Synthetic HT Series High Temperature Lubricating Oils are based on novel, proprietary technology, creating an antiwear product which incorporates the highest quality synthetic base fluids. HT Series Oils provide high operational temperature ranges and unbeatable thermal stability properties. The additive chemistry used provides excellent friction-reducing characteristics, and the synthetic base stocks are both thermally and chemically stable, virtually eliminating carbon formation in the recommended temperature ranges.

Typical problems with other high-temperature lubricants such as thermal degradation (carbon formation), poor volatility characteristics (excessive smoke and fumes), and high oil consumption (from volatility and over lubrication) can easily be overcome by using AMSOIL HT Series High Temperature lubricants. The ability of the HT Series oils to provide cost-effective and problem-solving service means increased uptime and savings on maintenance costs and product consumption.

PERFORMANCE FEATURES

- Superior film strength and antiwear protection at high temperatures
- Exceptionally low volatility
- Thermally and oxidatively stable up to 500°F
- Compatible with petroleum and synthetic lubricants
- Excellent rust and corrosion prevention
- Exceptional multifunctional lubricants

APPLICATION RECOMMENDATION

HT Series Oils are the primary recommendation for applications such as stentors, dryers, heat setting machines, tenter frames, oven conveyors and chains, or wherever a lubricant with exceptional high-temperature properties is required.

Recommended operational temperature ranges are up to 500°F. AMSOIL HT Series Oils are compatible with most seals, paints, petroleum oils and metals including bronze-type

SYNTHETIC HT SERIES HIGH TEMPERATURE LUBRICATING OILS

components. The HT Series Oils can also be used for a variety of applications, such as gears and bearings or anywhere an antiwear, high-temperature lubricant is required.

The HT Series Oils may be applied to chains manually or automatically. Relubrication is dependent on chain design and length, method of lubrication and operating conditions. For chains operating at temperatures exceeding 180°C, it is recommended the chain rails be checked for extra lubrication.

Although these oils are stable at high temperatures, to maintain the effective film of lubrication, the relubrication intervals should be monitored and the system periodically inspected for an adequate amount of oil on the components. When increasing the lubrication interval, the quantity applied may be reduced. Pay close attention when adjusting lubrication intervals and quantities applied. Consult manufacturer's recommendations and adjust accordingly. Improving service conditions can be made cost-effective by improved relubrication intervals. Although AMSOIL lubricants are compatible with mineral oil-based lubricants, it is recommended for optimum performance that the system be thoroughly inspected, drained and cleaned, if warranted, prior to installing the products.

AMSOIL PRODUCT WARRANTY

AMSOIL Industrial Lubricants are formulated to meet or exceed accepted industry specifications. AMSOIL warrants that the use of its lubricants will not cause mechanical damage to any mechanically sound equipment when AMSOIL products are used in full compliance with the company's recommendations. However, the purchaser of these lubricants is responsible for determining if these specifications are adequate and proper for the intended application. The AMSOIL warranty is limited to lubricant performance consistent with indicated specifications. No additional warranty, expressed or implied, can be made.

TYPICAL TECHNICAL PROPERTIES

Synthetic HT Series

High Temperature Lubricating Oils	HTH	HTI	HTJ	HTK	HTL	HTM	HTN	HTO
ISO Viscosity Grade — ASTM D-2422 . . . .	.32	46	68	100	150	220	320	460
AGMA Classification . . . . .	.0	1	2	3	4	5	6	7
Viscometrics 100°C, cSt —								
ASTM D-445 . . . . .	.6.04	8.23	10.60	14.02	19.19	24.71	31.99	40.69
Viscometrics 40°C, cSt —								
ASTM D-445 . . . . .	.30.84	47.01	67.42	98.44	155.06	216.11	327.01	456.54
Viscosity Index (VI) — ASTM D-2270 . . . .	.147	150	146	145	141	143	136	138
Specific Gravity (g/ml) —								
ASTM D-1298 . . . . .	.0.9459	0.9440	0.9427	0.9383	0.9371	0.9352	0.9328	0.9328
Density (lbs./gal.) — ASTM D-1298 . . . .	.7.877	7.861	7.851	7.814	7.804	7.788	7.768	7.768
Noack Volatility (%WL) — DIN 51581 . . . .	.3.60	3.18	3.25	4.50	4.40	4.67	4.42	4.27
Four-Ball — ASTM D-4172 (40 kg, 1200 rpm, 75°C, 1 hr., mm) . . . .	.0.45	0.45	0.35	0.35	0.35	0.35	0.35	0.35
Flash Point °C (°F) — ASTM D-92 . . . .	.258 (496)	252 (486)	250 (482)	254 (489)	252 (486)	252 (486)	256 (493)	252 (486)
Fire Point °C (°F) — ASTM D-92 . . . . .	.300 (572)	296 (565)	296 (565)	290 (554)	292 (558)	290 (554)	290 (554)	290 (554)
Pour Point °C (°F) — ASTM D-97	-.46 (-51)	-46 (-51)	-46 (-51)	-46 (-51)	-42 (-44)	-33 (-27)	-32 (-26)	-30 (-22)
Copper Strip Corrosion Test — ASTM D-130 (250°F, 3 hrs.) . . . . .	.1A	1A	1A	1A	1A	1A	1A	1A

AMSOIL PRODUCT AVAILABILITY

AMSOIL products are available in 5-gallon pails, 55-gallon drums, 275-gallon totes and bulk quantities. For 275-gallon totes, please allow two to four weeks for delivery.

HTH and HTI are available in minimum 55-gallon quantities (drum or pails). For these products, please allow four to six weeks for delivery.

AMSOIL Industrial Lubricants are stocked in Superior, Wisconsin and in select regional distribution centers throughout the United States and Canada. AMSOIL will stock additional quantities of lubricants or special order products based on customer requests and regional demands.

AMSOIL Industrial Synthetic Lubricants and Dealership information are available from the AMSOIL Industrial Lubricants Department, 715-392-7101 (fax 715-392-7252).

