



Amalie Industrial Gear Oils (Mineral Oil Base) are compounded lubricants containing extreme pressure (EP), anti-wear (AW), anti-rust, antioxidant, yellow metal protection, water separation, and foam inhibition. Primary specifications which are met with these mineral gear oils include US Steel, American Gear Manufacturers Association (AGMA), and Cincinnati Machine. Amalie Industrial Gear Oils (Mineral Oil Base) are ashless, lead-free, low-chlorine, and thermally stable. They have good filtration properties and are extremely resistant to gear wear and scuffing.

Amalie Industrial Gear Oils (Synthetic Base) are fully synthetic oils compounded to contain extreme pressure (EP), anti-wear (AW), anti-rust, antioxidant, yellow metal protection, water separation, and foam inhibition. These Synthetic Based gear oils are formulated with fully synthetic base stocks designed to bring higher levels of oxidation performance. Drain intervals using Amalie Industrial Gear Oils (Synthetic Base) are typically significantly longer than industrial mineral based gear oils. Primary specifications which are met with these synthetic gear oils include US Steel, American Gear Manufacturers Association (AGMA), and Cincinnati Machine. Amalie Industrial Gear Oils (Synthetic Base) are ashless, lead-free, low-chlorine, and thermally stable. They have good filtration properties and are extremely resistant to gear wear and scuffing. Amalie Industrial Synthetic Gear Oils contain an EP agent and chemical components to control wear, oxidation, sludge, corrosion and foaming. These products are formulated in various ISO viscosity grades, with varying high and low temperature properties depending on ambient conditions.

TYPICAL INSPECTION DATA

	ISO grade	Cincinnati Machine	AGMA grade	API Gravity	Flash Pt. C.	Viscosity cSt@40°C	Viscosity cSt@100°C	Viscosity Index	Pour Pt.C.
Industrial Gear Oil (Mineral Oil Base)	46	-	1EP	30.4	200	44.5	7.3	100	-18
	68	P-63	2EP	30.5	210	68.0	8.7	100	-15
	100	P-76	3EP	30.00	220	100	11.2	100	-15
	220	P-74	5EP	28.0	240	220	19.0	100	-12
	320	P-59	6EP	27.0	250	330	24.5	100	-12
	680	P-34	8EP	26.5	270	680	45.0	100	-9
	1000	P-78	8AEP	26.8	280	1000	80.0	100	-9
	1500	-	9EP	27.0	285	1500	120.0	100	-9
Industrial Gear Oil (Synthetic Base)	220	-	5S	34.8	200	220	30.0	160	-18
	320	-	6S	34.6	210	330	42.0	160	-18
	460	-	7S	34.5	210	460	54.0	160	-18
	680	-	8S	34.2	220	680	80.0	160	-18
	1000	-	-	34.1	220	1000	105.0	180	-18
	3200	-	10S	33.7	230	3200	286.0	190	-18
	6800	-	12S	33.3	240	6800	521.5	200	-18

PERFORMANCE APPLICATION CHART

SPECIFICATIONS	Industrial Gear Oils (Mineral Oil Base)	Industrial Gear Oils (Synthetic Oil Base)
AGMA 9005-D94		
EP	√*	-
S	-	√*
API GL-4	√	√
Cincinnati Machine	√*	√*
Bijur	√	√
DIN 51517	√	√
GM LS-2	√	√
US STEEL 224	√	√
Rust Test Pass, ASTM D 665b	√	√
Timkin, OK load, 60 lb min	√	√
FZG Load Stage Pass, (12 pass)	√	√
Demulsibility, ASTM D 2711(pass)	√	√
Oxidation, S-200 (pass)	√	√
Foam Inhibition, ASTM D 892 (pass)	√	√
LEAD-FREE	√	√

* Viscosity specific, see specification page