

Product Description

D-A Gear-Syn EP™ synthetic gear oil is engineered for all kinds of enclosed gearing, plain and rolling element bearings. Gear-Syn EP exhibits superb oxidation and thermal stability along with excellent low temperature performance across a wide range of applications. Under these various temperatures, protection is not jeopardized by varying load and speed conditions. Gear-Syn EP oil is formulated with outstanding extreme pressure (EP) additives to provide a layer of protection for shock loading. It is especially useful where micropitting of gear teeth has been a problem. Its low friction tendencies, when compared to conventional gear lubricants, produce lower operating temperatures and increased gear efficiency providing an opportunity to reduce operating costs. Gear-Syn EP incorporates an effective demulsifier to rapidly separate water from the oil to be drained off. This limits the risk of foaming and maintains oil film integrity, as well as reducing the chance of corrosion and premature oxidation.

Product Features and Benefits

This synthetic formulation provides outstanding resistance to high temperature thermal stress and oxidation. Longer oil life results while providing exceptional lubrication protection.

Excellent fluidity at low temperatures and low coefficient of friction at all temperatures permits easier start-ups and energy efficient operation.

A unique combination of synthetic base oils and antiwear additives provide low gear and bearing wear, including excellent resistance to micropitting of gear teeth.

Special additives minimize corrosion of bronze and copper metals and at the same time protect iron and steel components from rusting.

Rapid water separation minimizes potential damage caused by exposure of lubricated surfaces to free water.

Longer oil life, longer gear and bearing life and excellent lubricity and flow properties provide reduced maintenance costs and greater operating efficiency.

Maximum base oil stability even under conditions of high temperature and oxidation minimizes build-up of deposits.

Service Applications

Vibratory roller exciter gear boxes	AGMA 9005-E02 (EP)
Severely loaded industrial gears	AIST (US Steel) 224
Stationary and mobile equipment, antifriction and journal bearings	Boston Gear
Enclosed gearboxes requiring EP lubricants	Cincinnati Machine (See table below)
Steel-on-steel fittings	DIN 51517, Part 3
Circulating oil systems	

Typical Properties:

*ISO Viscosity Grade	ASTM	68	100	150	220	320	460
AGMA Viscosity Grade		2EP	3EP	4EP	5EP	6EP	7EP
Cincinnati Machine		P54		P57	P39	P39	P39
Viscosity							
@ 100° C, cSt		71.89	100.4	156.2	216.8	315.2	455.5
@ 40° C, cSt		10.91	14.15	19.80	25.37	33.59	44.24
Viscosity Index		141	144	146	148	149	151
API Gravity	D287	31.92	31.12	30.06	29.30	28.43	27.60
Pour Point, °F (°C)	D97	-35(-37)	-36(-38)	-38(-39)	-35(-37)	-29(-34)	-20(-29)
Brookfield Viscosity at -25°C, cP	D2983	9,830	16,060	13,860	47,700	76,600	140,200
Flash Point, °F (°C)	D92	450(232)	432(222)	432(222)	432(222)	441(227)	439(226)
Foam	D892						
	Seq I, ml	0/0	0/0	0/0	0/0	0/0	0/0
	Seq II, ml	10/0	60/0	30/0	20/0	50/0	50/0
	Seq III, ml	0/0	0/0	0/0	0/0	0/0	0/0
Demulsibility, Free Water	D2711B	87	--	--	84	--	80
	Emulsion	0.5	--	--	1.0	--	1.5
	Water in Oil	0	--	--	0	--	1
TOST, hrs		----- 10,000+ -----					
Rust Test	D665A	----- pass -----					
Rust Test	D665B	----- pass -----					
Copper Corrosion, 3 hrs @ 100°C	D130	----- 1b -----					
FZG, stage	D5182	----- 12+ -----					
Four Ball Wear (20/1800/1hr), mm	D2266	0.31	0.29	0.27	0.27	0.27	0.27

To Order D-A Products, Call 1-800-OIL-LUBE (1-800-645-5823)
Or Fax orders to (317) 923-3884

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