

## Product Description

D-A GearSyn™ EP synthetic gear oil is engineered for all kinds of industrial enclosed gearing, and plain or rolling element bearings requiring an EP gear oil. GearSyn 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. GearSyn 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 produce lower operating temperatures and increased gear efficiency providing an opportunity to reduce operating costs. GearSyn EP incorporates an effective demulsifier to rapidly separate water from the oil so that the water can 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 co-efficient 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 oxidation.

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.

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

## PRODUCT AT A GLANCE

- Synthetic gear lubricant
- Excellent low temperature performance
- EP
- Separates and sheds water quickly
- Supports the performance requirements of AGMA EP



**D-A Lubricant Company, Inc.**

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## Typical Applications

Vibratory roller exciter gear boxes  
Severely loaded industrial gears  
Stationary and mobile equipment,  
antifriction and journal bearings  
Enclosed gearboxes requiring EP lubricants  
Steel-on-steel fittings  
Circulating oil systems

Supports the performance requirements of:  
AGMA 9005-E02 (EP)  
AIST (US Steel) 224  
Boston Gear  
Cincinnati Machine (See table below)  
DIN 51517, Part 3  
FAG  
Flender AG  
SKF

## Typical Properties

ISO Viscosity Grade	ASTM 2422	68	100	150	220	320	460
AGMA Viscosity Grade		2EP	3EP	4EP	5EP	6EP	7EP
Cincinnati Machine		P63	P76	P77	P74	P59	P35
Viscosity							
@ 40° C, cSt	ASTM D445	71.89	100.4	156.2	216.8	315.2	455.5
@ 100° C, cSt	ASTM D445	10.91	14.15	19.80	25.37	33.59	44.24
Viscosity Index	ASTM D2270	141	144	146	148	149	151
API Gravity	ASTM D287	31.92	31.12	30.06	29.30	28.43	27.60
Pour Point, °F (°C)	ASTM D97	-35(-37)	-36(-38)	-38(-39)	-35(-37)	-29(-34)	-20(-29)
Brookfield Viscosity at -25°C, cP	ASTM D2983	9,830	16,060	13,860	47,700	76,600	140,200
Flash Point, °F (°C)	ASTM D92	450(232)	432(222)	432(222)	432(222)	441(227)	439(226)
Foam	ASTM 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,	ASTM D2711B						
Free Water, ml		87	--	--	84	--	80
Emulsion, ml		0.5	--	--	1.0	--	1.5
Water in Oil, %		0	--	--	0	--	1
Rust Test	ASTM D665A		_____	_____	pass	_____	
Rust Test	ASTM D665B		_____	_____	pass	_____	
Copper Corrosion, 3 hrs @ 100°C	ASTM D130		_____	_____	1b	_____	
FZG, stage	ASTM D5182		_____	_____	12+	_____	
Four Ball Wear (20/1800/1hr), mm	ASTM D2266	0.31	0.29	0.27	0.27	0.27	0.27
	Drum, 55 Gal	14642	14652	14462	14472	14482	*
	Quarter Drum, 16 Gal	14646	14656	14466	14476	14486	*
	Pail, 5 Gall	14648	14658	14468	14478	14488	*

\* Special Order only, minimums may apply. Please contact D-A.

To Order D-A Products, Call 1-800-OIL-LUBE (1-800-645-5823) or Fax orders to 765.482.3065

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