

## 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 micro-pitting 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. **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 anti-wear additives provide low gear and bearing wear, including excellent resistance to micro-pitting 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.

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

## Typical Applications

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

AGMA 9005-E02 (EP)  
 AIST (US Steel) 224  
 Boston Gear  
 DIN 51517, Part 3

## Typical Properties

ISO Viscosity Grade	Test Method	68	100	150	220	320	460
AGMA Lubricant Number		2EP	3EP	4EP	5EP	6EP	7EP
Viscosity @ 100°C, cSt	ASTM D445	10.9	14.2	19.8	25.4	33.6	44.2
@ 40°C, cSt	ASTM D445	72	100	156	217	315	456
Viscosity Index	ASTM D2270	141	144	146	148	149	151
Pour Point, °F (°C)	ASTM D97	-35 (-37)	-36 (-38)	-38 (-39)	-35 (-37)	-29 (-34)	-20 (-29)
Flash Point, °F (°C)	ASTM D92	450 (232)	432 (222)	432 (222)	432 (222)	441 (227)	439 (226)
API Gravity	ASTM D4052	31.92	31.12	30.06	29.30	28.43	27.60
FZG Test, Pass Stage	ASTM D5182	12+	12+	12+	12+	12+	12+
Copper Strip Corrosion	ASTM D130	1b	1b	1b	1b	1b	1b
Rust Test	ASTM D665	Pass	Pass	Pass	Pass	Pass	Pass
Foam Test	ASTM D892	Pass	Pass	Pass	Pass	Pass	Pass

### D-A Part Number:

Bulk	14641	14651	14461	14471	14481	14491
Tote – 330 Gal	N/A	N/A	N/A	N/A	14483	N/A
Drum – 400 lb	N/A	N/A	14462LB	14472LB	14482LB	14492LB
Pail (Metal) – 35 lb	N/A	N/A	14469LB	14479LB	14489LB	14499LB
Pail (Plastic) – 35 lb	14648LB	N/A	14468LB	14478LB	14488LB	14498LB