# GearSyn EP™

## 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.

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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

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<br>@ 100°C, cSt<br>@ 40°C, cSt | <br>ASTM D445<br>ASTM D445 | <br>10.9<br>72 | <br>14.2<br>100 | <br>19.8<br>156 | <br>25.4<br>217 | <br>33.6<br>315 | <br>44.2<br>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 | 14473 | 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 |