

## GEARSYN EP SERIES

### SYNTHETIC INDUSTRIAL/HEAVY DUTY EP GEAR/BEARING LUBRICANTS

**GEARSYN EP Series** gear lubricants are formulated with synthetic base stocks and fortified with select additive systems to enhance their exceptional performance. The PAO base fluid used has outstanding oxidation and thermal stability, naturally high viscosity index and excellent low temperature pumpability and fluidity. The unique additive system used provides increased oxidation stability, extreme pressure properties, and maximum protection against wear, rust, corrosion and foaming.

In today's world of efficiency improvements, there has been much emphasis placed on reducing energy requirements for equipment used in plant operations. GEARSYN EP SERIES gear lubricants have proven to reduce friction, thereby reducing the input power to operate the equipment or increasing the available power output. The reduction of fluid friction results in lower lubricant operating temperatures, prolonging the life of both the lubricant and the equipment.

The additive system used in this product not only reduces frictional drag, but also protects gears against failures associated with heavy loading and meets the requirements of U.S. Steel 224 specification, AGMA 9005-D94 specification and API GL-4 Gear Service Category.

#### APPLICATION:

**PETROCHEM'S GEARSYN EP SERIES** gear lubricants are recommended for use in all types of enclosed gearing as well as plain and rolling element bearings. These lubricants are ideal for heavily loaded low speed gears and bearings where boundary or elasto-hydrodynamic lubrication (EHL) conditions exist, such as in mine hoist gear reducers. They are particularly recommended for gearboxes which operate under excessively high temperatures where good quality conventional oils rapidly oxidize. GEARSYN EP SERIES gear lubricants may also be used in certain open gear applications.

**PETROCHEM'S GEARSYNE EP Series** gear lubricants are compatible with most seal materials, paints and plastics, including nitrile Buna N, neoprene, viton, teflon, polyethylene, polyurethane ether, fluorocarbon, polyacrylate, polysulfide, ethylene acrylic, epoxy, plastisol, PVC, acrylic paint and lacquer.

CONTAINER SIZES: 1 GALLON, 5 GALLON PAILS, 55 GALLON DRUM

#### PHYSICAL PROPERTIES:

PROPERTY	ISO 150 (SAE 85W)	ISO 220 (SAE 90)	ISO 320 (SAE 140)	ISO 460 (SAE 140)	ISO 680 (SAE 140)
GEARSYN SERIES	GEARSYN EP 150	GEARSYN EP 220	GEARSYN EP 320	GEARSYN EP 460	GEARSYN EP 680
Viscosity Index	133	134	134	130	134
AGMA Number	4EP	5EP	6EP	7EP	8EP
Viscosity @ 40° C, cSt	142	213	307	437	630
Viscosity @ 100° C, cSt	17.3	23.2	30.2	37.4	49.6
Four-Ball Weld, lbs.	315	315	315	315	315
Four-Ball Scar, mm	.39	.34	.30	.30	.30

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*Member of the American Baking Society*

Timken OK, lbs	65	65	65	65	65
Rust Test	Pass	Pass	Pass	Pass	Pass
Flash Point, ° F (°C)	445 (230)	430(221)	425(216)	435(224)	416(210)
Pour Point, ° F (°C)	-60 (-51)	-45 (-43)	-40 (40)	-35 (-37)	-35 (-37)
Copper Corrosion	1B	1B	1B	1B	1B
Color	CLEAR, STRAW	CLEAR, STRAW	CLEAR, STRAW	CLEAR, STRAW	CLEAR, STRAW

**HANDLING PRACTICES:**

For information on the safe handling and use of this product, refer to the Material Safety Data Sheet.  
For more information and availability, call (630) 513-6350.