

## Product Description

D-A GearSyn™ RO is a full synthetic, multipurpose rust and oxidation (R&O) inhibited industrial gear lubricant. Gear-Syn RO offers exceptional high temperature stability and excellent low temperature flow when lubricating industrial gear sets and bearings. D-A Gear-Syn RO rapidly separates from water while protecting metal surfaces from rust and corrosion. D-A Gear-Syn RO is extremely durable in severe service. This can result in an opportunity to reduce overall operating costs when compared to usage of mineral oil gear lubricants.

## Product Features and Benefits

This full 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.

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.

## PRODUCT AT A GLANCE

- Synthetic Gear Lubricant
- Excellent High Temperature Stability
- R & O
- Separates and Sheds Water Quickly



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

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## Typical Applications

Moderately loaded industrial gears  
Stationary and mobile equipment,  
antifriction and journal bearings  
Enclosed gearboxes requiring R&O lubricants  
Steel-on-steel and steel-on-bronze fittings  
Circulating oil systems

Supports the performance requirements of:  
AGMA 9005-E02 (R & O)  
AIST (US Steel) 120  
Cincinnati Machine - see table below  
DIN 51515-1 (ISO 68, 100)  
DIN 51524, Parts 1 and 2 (ISO 68-150)

## Typical Properties

ISO Viscosity Grade	ASTM 2422	68	100	150	220	320	460
AGMA Viscosity Grade		2	3	4	5	6	7
Cincinnati Machine		P54		P57	P39	P39	P39
Viscosity							
@ 40° C, cSt	ASTM D445	68	100	151	225	321	462
@ 100° C, cSt	ASTM D445	10.3	14	19.1	26	33.3	43.2
Viscosity Index	ASTM D2270	138	142	144	148	146	146
Pour Point, °F (°C)	ASTM D97	-35 (-37)	-36 (-38)	-36 (-38)	-35 (-37)	-30 (-34)	-20 (-29)
Flash Point, °F (°C)	ASTM D92	480 (249)	460 (238)	460 (238)	455 (235)	451 (233)	447 (231)
Water Demulsibility, min to 3 mL emulsion	ASTM D2711B	10	10	10	10	15	20
Foam Test, Sequence I,II,III Tendency/Stability/ml/ml	ASTM D892	_____ 0/0, 0/0, 0/0 _____					
TOST, hrs	ASTM D943	_____ 10,000+ _____					
Copper Corrosion	ASTM D130	_____ 1b _____					
Rust Test	ASTM D665B	_____ Pass _____					
FZG Scuffing Test, A/8.3/90°C	ASTM D5182	_____ 12+ _____					
Specific Gravity, 60/60°F	ASTM D1298	0.854	0.859	0.864	0.869	0.873	0.878
Density, lbs.gal, 15.6°C (60°F)	ASTM D4052	7.13	7.13	7.21	7.25	7.29	7.33
Drum - 55 Gal		14822	14832	14842	n/a	n/a	n/a
Drum - 400 lb					14852LB	14862LB	14872LB
Pail - 5 Gal		14828	14838	14848	14858	14868	14878

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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