



# TECHNICAL DATA SHEET

## INNERSEAL™ LEAK CONTROL GEAR OIL

Whitmore's Innerseal™ Leak Control Gear Oil has been designed to help control gear case leaks. The unique additives employed form small, irregularly shaped particles which agglomerate into an irregular, mesh-like structure. When exposed to the dynamic conditions associated with large gear cases, these structures facilitate a reduction in gear oil loss due to poor seals, small cracks, and loose fits.

Innerseal™ is designed as a maintenance tool to assist maintenance planners in scheduling time-consuming repairs at appropriate, planned shutdown periods. Use Innerseal™ whenever gear case leaks become an exercise in constant refilling and needed maintenance cannot be scheduled immediately.

All viscosity grades of Innerseal™ meet the requirements of DIN 51517-3.

### BENEFITS:

- CONTROLS LEAKS - until proper maintenance can be scheduled.
- VERSATILE - may be used in a variety of equipment.
- REDUCES WEAR - protects against scoring, scuffing and gelling, while providing the leakage control.

### APPLICATIONS:

Excellent for enclosed industrial and mining gear cases including those experiencing heavy load or shock loading.

Innerseal™ should not be used in systems where the oil is pumped through a filter.

Pump using a diaphragm pump only.

ASTM #		TYPICAL CHARACTERISTICS									
	<b>Grade</b>	68	100	150	220	320	460	500	680	1000	1500
	<b>AGMA Grade</b>	2EP	3 EP	4 EP	5 EP	6 EP	7 EP	7 EP	8 EP	8A EP	9 EP
<b>D-445</b>	<b>Kinematic Viscosity</b> cSt @ 40°C cSt @ 100°C	70 9	106 12	159 15	235 22	345 27	475 31	514 32	736 37	1,040 52	1,630 65
<b>D-2161</b>	<b>Saybolt Viscosity</b> SUS @ 100°F SUS @ 210°F	343 56	548 68	749 79	1,295 110	1,783 131	2,512 157	3,038 168	3,980 179	5,577 245	8,831 315
<b>D-2270</b>	<b>Viscosity Index</b>	99	106	91	111	101	96	94	82	97	91
<b>D-97</b>	<b>Pour Point, °F</b> °C	-20 -29	-20 -29	-10 -23	0 -18	5 -15	5 -15	10 -12	15 -9	20 -7	25 -4
<b>Gardner Method</b>	<b>Density, lb/gal @ 60°F (15.5°C)</b> <b>Specific Gravity g/cc @ 60°F (15.5°C)</b>	7.40 0.888	7.44 0.893	7.46 0.896	7.50 0.900	7.52 0.905	7.55 0.906	7.77 0.932	7.69 0.923	7.80 0.937	7.84 0.941
<b>D-92</b>	<b>Flash Point, °F</b> °C Cleveland Open Cup	400 204	400 204	400 204	400 204	400 204	400 204	400 204	400 204	400 204	425 218
<b>D-2782</b>	<b>Timken OK Load, lb</b>	60	65	65	65	65	70	70	70	70	70
<b>D-2783</b>	<b>Four Ball EP Weld Point, kg</b>	500	500	500	500	500	500	500	500	500	500
<b>D-4172</b>	<b>Four Ball Wear Scar Width, mm @ kg</b>	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
<b>D-665</b>	<b>Rust Test</b>	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
<b>D-130</b>	<b>Copper Strip Corrosion</b>	1B	1B	1B	1B	1B	1B	1B	1B	1B	1B
<b>D-2893</b>	<b>Oxidation for Lubricating Oils, % Viscosity Change</b>	<6	<6	<6	<6	<6	<6	<6	<6	<6	<5
	<b>FZG Test, Stages Passed</b>	N/A	N/A	N/A	>12	>12	>12	>12	>12	>12	>12

The above are average values. Minor variations which do not affect product performance are to be expected in normal manufacturing.

### PACKAGING

Drums	Pails
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### THE WHITMORE MANUFACTURING COMPANY

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