

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.

Whitmore's Innerseal™ is designed as a maintenance tool to assist maintenance planners in scheduling time-consuming repairs at appropriate, planned shutdown periods. Use Whitmore's 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.

Whitmore's Innerseal™ will not stop major leaks caused by serious mechanical problems. Innerseal™ should not be used in systems where the oil is pumped through a filter.

Innerseal™ will seal up small orifices in mechanical equipment. It should be pumped using positive displacement diaphragm pumps only. Do not use piston, gear, or vane pumps.

ASTM #		TYPICAL CHARACTERISTICS			
		220	320	680	1000
D-2983	ISO Grade	220	320	680	1000
	Brookfield Viscosity Finished Product @ 77°F, cps	2,200	3,000	5,500	19,800
D-445	Kinematic Viscosity (Base Oil) cSt @ 40°C	210	297	740	1,100
	cSt @ 100°C	16	20	38	51
D-2161	Saybolt Viscosity (Base Oil) SUS @ 100°F	1,125	1,600	4,000	6,150
	SUS @ 210°F	82	101	180	245
D-97	Pour Point, °F (°C)	10 (-12)	20 (-7)	35 (2)	35 (2)
Gardner Method	Density, lb/gal @ 60°F (15.5°C)	7.71	7.80	7.82	7.84
	Specific Gravity, g/cc @ 50°F (15.5°C)	0.926	0.936	0.939	0.941
D-92	Flash Point, °F (°C) Cleveland Open Cup	400 (204)	400 (204)	400 (204)	400 (204)
D-2782	Timken OK Load, lb/kg	50 (22.7)	65 (29.5)	65 (29.5)	65 (29.5)
D-2783	Four Ball EP, Weld Point, kg	315	400	400	400
D-4172	Four Ball Wear, Scar Width, mm @ 40 kgf	0.45	0.50	0.50	0.50
D-665	Rust Test, Distilled Water	Pass	Pass	Pass	Pass
D-130	Copper Strip Corrosion	1B	1B	1B	1B
	FZG Test, Stages Passed	11	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

930 Whitmore Drive • P.O. Box 9300 • Rockwall, Texas 75087 • USA • (972) 771-1000 • Fax: (972) 722-2108
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 Performance Under Pressure Since 1893

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