WHITMORE'S

TECHNICAL DATA SHEET

INNERSEAL LEAK CONTROL GEAR OIL

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

For best results, Innerseal $^{\text{TM}}$ should be mixed well before filling a gear case. Use a mixer or agitate the product by inserting a pressurized air hose.

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 InnersealTM will not stop major leaks caused by serious mechanical problems. InnersealTM 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.

Since the leak-stopping additive tends to settle, it is advisable to stir the product.

ASTM#		TYPICAL CHARACTERISTICS			
	ISO Grade	220	320	680	1000
D-2983	Brookfield Viscosity Finished Product @ 77°F, cps	2,200	3,000	5,500	19,800
D-445	Kinematic Viscosity (Base Oil) cSt @ 40°C cSt @ 100°C	210 16	297 20	740 38	1,100 51
D-2161	Saybolt Viscosity (Base Oil) SUS @ 100°F SUS @ 210°F	1,125 82	1,600 101	4,000 180	6,150 245
D-97	Pour Point, °F (°C)	10 (-12)	20 (-7)	35 (2)	35 (2)
Gardner Method	Density, lb/gal @ 60°F (15.5°C) Specific Gravity, g/cc @ 50°F (15.5°C)	7.71 0.926	7.80 0.936	7.82 0.939	7.84 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			

THE WHITMORE MANUFACTURING COMPANY

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An ISO 9001, ISO/TS 16949, and ISO 14001 Registered Company • http://www.whitmores.com
Performance Under Pressure Since 1893

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