



# TECHNICAL DATA SHEET

## DET 900 NON-REACTIVE GREASE

Whitmore's DET 900 is a stable, nonflammable, chemically inert grease designed for use in long life and sealed-for-life applications. It is inert to virtually all chemicals used in industry, is insoluble in most solvents, and relatively stable to radiation when compared to conventional lubricants.

This product is biologically inert and offers superior resistance to "Lewis acids," found in semiconductor manufacturing.

Whitmore's DET 900 will prove serviceable for long periods at continuous temperatures up to 400°F (204°C) with minimal re-lubrication. DET 900 can withstand higher temperatures (up to 575°F or 300°C). At 575°F re-lubrication is needed approximately every 8 to 12 hours.

Ensure adequate ventilation when used at or above 535°F (280°C)

Compatibility with elastomeric seal materials and plastics is excellent. This includes Buna N, Butyl 325, Neoprene, Nylon, and Teflon. The limiting factor when using this grease is the thermal stability of the elastomer or plastic.

### BENEFITS:

- **LOW EVAPORATION** - compared to conventional synthetic greases, an increase in lubricant life of 5 to 10 times can be achieved.
- **CHEMICAL RESISTANCE** - provides protection against most aggressive chemicals that degrade conventional lubricants.
- **NONFLAMMABLE AND INERT** - depending on the specific chemicals involved, this grease can be considered for use in facilities that manufacture corrosive chemicals. Consult Whitmore's Technical Services Department before using.
- **PAINT COMPATIBLE** - since it is silicone-free, Whitmore's DET 900 EP 2 is suitable for use in high temperature paint oven bearings.
- **WIDE TEMPERATURE RANGE** – can be used up to 575°F (300°C) with adequate re-lubrication and ventilation.
- **ANTI-CORROSION** - does not contain chlorine and will not promote chloride-induced corrosion.

### APPLICATIONS:

Designed for use in any grease-lubricated applications where high temperatures, chemicals, or radiation create difficulties or where long lubricant life is required.

Typical applications include bearings on hot air blowers, bearings on oven conveyors, and fan bearings on textile machines. Suitable for use in film stretching machines and will not react with plastic film.

Suitable for use in systems that handle aliphatic, aromatic, or chlorinated hydrocarbons, gasoline, ketone, alcohol, ethers, or water.

Partially soluble in trichlorotrifluoroethane. For more information, call Whitmore's Technical Service Department at 800-699-6318.

ASTM #		TYPICAL CHARACTERISTICS
D-217	<b>Grade</b>	EP 2
D-445	<b>Cone Penetration (Worked)</b>	265-295
	<b>Kinematic Viscosity (Base Oil)</b>	
	cSt @ 40°C	510
	cSt @ 100°C	47
D-2270	<b>Viscosity Index (Base Oil)</b>	134
Gardner Method	<b>Density, lb/gal @ 77°F (25°C)</b>	16.57
D-1298	<b>Specific Gravity</b>	1.99
D-2596	<b>Four Ball EP</b>	
	Weld Point, kg	>800
D-4048	<b>Copper Strip Corrosion for Greases</b>	
	212°F (100°C) @ 3 hrs	1a
	<b>Oil Type</b>	Perfluoropolyether (PFPE)
	<b>Thickener Type</b>	Polytetrafluoroethylene (PTFE)

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

### PACKAGING

Cartridges  
(50 per case)

### THE WHITMORE MANUFACTURING COMPANY

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