

**HIGH  
PERFORMANCE  
GREASES**

**fluid**  
SOLUTIONS  
*Everything Runs Smoothly*

# HIGH PERFORMANCE GREASES

More than ever, Lubricating Greases are relied upon in order for Roller Bearings to meet their expected lifetimes. Fluid Solutions, Inc.'s range of Greases offer a variety for all applications.

## MULTI-PURPOSE EP GREASES

Conventional Lithium-Mineral Oil greases that will suit general applications. Contains Extreme Pressure (EP) additives. Use Petrogrease EP 00 and 0 for Centralized or Automatic Lubricating Systems.

	Color	Appearance	Base Oil Viscosity (cSt at 40 °C)	NLGI #
Petrogrease EP 00	Gray	Uniform/smooth	25	00
Petrogrease EP 0	Gray	Uniform/smooth	115	0
Petrogrease EP 1	Gray	Uniform/smooth	200	1
Petrogrease EP 2	Gray	Uniform/smooth	200	2

All available in 16 kg pails and 180 kg drums

## HEAVY-DUTY EP GREASES

Tacbecon SG series greases are fortified with extreme pressure (EP) additives and anti-rust protection. Thickened with Lithium-Calcium soap, this grease exhibits better water-resistance and washout properties compared to conventional EP greases. Furthermore, this range performs at 300 to 400 kg weld load on a standard 4-ball wear test.

	Base Oil	Base Oil Viscosity (cSt at 40 °C)	Thickener	NLGI	Speeds	Operating Temperature Range ( °C)
SG200S	Mineral oil	200	Li-Ca	2	Up to 3000 rpm	-20 to 120
SG500	Mineral oil	500	Li-Ca	2	Up to 1500 rpm	-20 to 120
SG1000S	Mineral oil	1200	Li-Ca	2	1000 rpm and below	-20 to 120

All available in 18 kg and 180 kg drums

**DID YOU KNOW** that a Grease's Base Oil Viscosity, measured in centistokes at 40 °C, is the primary factor in reducing friction and wear on bearing surfaces? Sufficient viscosity is required to ensure that friction between the rolling elements and the raceways are separated by an oil film. While a base oil viscosity of 150-200 cSt at 40 °C is satisfactory for general purpose use, applications of extremely high loads (and low speeds) therefore necessitate a grease with base oil viscosities of up to 500 – 1,000 cSt at 40 °C. The high viscosity is necessary to act as 'cushion' against the high loads. High speed applications on the other hand (n x dm > 1,000,000) require viscosities as low as 10 cst at 40 °C.

# GEAR COUPLING GREASES

Conventional multi-purpose EP greases just won't cut it on Gear Coupling applications, as evidenced by the frequency of teeth damage. Our Tacbecon SCG series of Gear Coupling Greases were designed to withstand the high centrifugal forces that causes oil separation, grease throw-off and teeth damage. The range is formulated with high-quality mineral oils, Lithium-Calcium thickeners, and a unique EP additive package.



	Base Oil NLGI	4-Ball Weld Load, kgs	Water Washout (% wt loss, 80 °C)	Rust Protection (ASTM D-1743)	Speeds	Operating Temp ( °C)	AGMA Coupling Grade
SCG50S	2	315	2.5	Pass	2000 rpm up	-20 to 120	CG-1
SCG100S	2	400	1.5	Pass	Below 2000 rpm	-20 to 120	CG-3
SCG300S	0	>500	1.5	Pass	For low speed couplings	-20 to 120	N/A

Available in 18 kg pails

## SPECIAL APPLICATION GREASES

For extreme applications, in terms of load, speed, temperatures, and high contamination environments, there is surely a product that will fit your requirements.

	Base Oil	Base Oil Viscosity (cSt at 40 °C)	Thickener	Temperature Range ( °C)	Speed	Load	Solid Lubricants	Application or Features
Tacbecon Kopal EP2	Mineral oil	160	Lithium complex	-20 to 140	Moderate	Moderate	N/A	Tacky grease for bearings, small gears, cams, slides and hinges.
Tacbecon Moly Plus 2	Mineral oil	140	Lithium	-25 to 130	Moderate	High	Molybdenum disulfide	Excellent load carrying capacity and extremely good water resistance
Tacbecon SGHT 600	Synthetic base oil	130	Graphite	-30 to 600	Moderate	High	Graphite	Kiln car bearings, furnace door gear, drying tunnels
Syntech Barium Complex M2	Mineral oil	220	Barium complex	-25 to 150	Moderate	Moderate	N/A	Resistant to fluids, acids and alkaline solutions
Syntech Procalith EP2	Mineral oil	100	Li-Ca	-30 to 120	Moderate	Moderate	N/A	For automatic lubricating systems, very low oil separation
Syntech RL105	Mineral oil	450	Bentone	-30 to 120	N/A	High	Molybdenum disulfide	Excellent penetration in wire ropes
Teccem Fluoronox M40/2*	PFPE	420	PTFE	-25 to 260	Low	Moderate	PTFE	Oven bearings, segment moulds, barrier / sealing grease

Available in 18 kg pails, and 180 kg drums  
\*Available in 1 kg cans only



**DID YOU KNOW** that the liquid Perfluoropolyether (PFPE) and its powdered cousin Polytetrafluoroethylene (PTFE) are two of the most appropriate lubricants for high temperature applications, functioning even up to 300 °C? Both are compounds of Carbon and Fluorine discovered by DuPont (USA), and are inert, non-toxic, odorless, non-flammable, and resistant to radiation, vacuum, acids, alkaline solutions, water and organic solvents. Due to these qualities, it is applied as chain oils (PFPE) for reflow ovens, painting ovens and baking ovens. A combination of PFPE and PTFE yields a grease, suitable for roller bearings exposed to very high temperatures, such as those found in Wafer Making Machines.

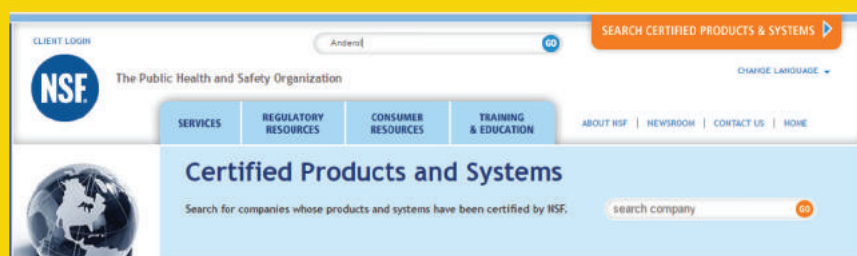
## FOOD GRADE GREASES (NSF H1 rated)

	Base Oil	Base Oil Viscosity (cSt at 40 °C)	Thickener	Temperature Range (°C)	Speed	Applications
<b>Anderol PQAA #2*</b>	White Oil	160	Aluminum complex	2	-20 to 140	Bearings, Seaming machine, bottling equipment, Oven bearings, segment moulds, barrier / sealing grease
<b>Anderol 783-2*</b>	PAO	350	Aluminum complex	2	-45 to 160	
<b>Teccem Fluoronox M44/2**</b>	PFPE	420	PTFE	2	-25 to 260	

All available in 18 kg pails and 180 kg drums

\*Available in 400 gram cartridges

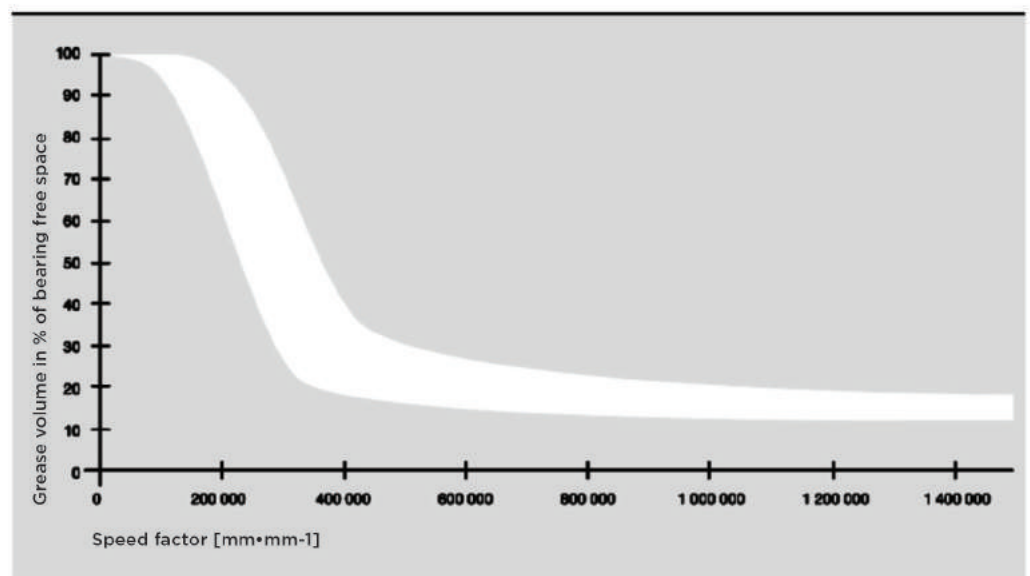
\*\*Available in 1 kg cans



An authentic NSF H1 product will always bear a licensed image as illustrated below, on the lubricant's container.



**Did you know** that overfilling the bearing with grease causes internal friction, shortening both grease and bearing life? Especially for bearings operating at high speeds, the overfilled grease serves as an impediment to the bearing's designed RPM. As a result, temperature rises exponentially, degrading the lubricant prematurely (and consequently the reducing bearing life, too). For proper filling, see filling guide.



The area marked in white indicates the grease fill as a function of the speed factor



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### Also Available:

#### SPECIALTY LUBRICANTS AND GREASES

High and Low Temperature Greases  
Chain and Wire Rope Lubricants  
Open Gear Greases  
Synthetic Gear, Compressor,  
Hydraulics Oils  
Fire Resistant Hydraulic Fluids

#### METALWORKING FLUIDS

Die Casting, Forging, Stamping  
Release Agents  
Rust Preventives and VCI's  
Cutting Oils and Coolants, Anti Rust

#### AUTOMATIC LUBRICATORS

#### OIL SKIMMERS