



PRODUCT BULLETIN



INDUSTRIAL GEAR OILS

"This outstanding product has proven itself in applications where premium industrial gear lubricants have failed."

DESCRIPTION:

Steelco Industrial Gear Oil is a super formulated product designed to provide outstanding performance in applications where premium industrial gear lubricants fail. The base stock used in Steelco Industrial Gear Oil is a blend of the finest solvent refined vacuum distilled paraffinic oils selected for their high natural viscosity index and oxidative and thermal stability. This superior base oil is then compounded with a series of highly specialized additives which provide the unique features of Steelco Industrial Gear Oil. This additive system includes the following: A versatile *extreme pressure additive* remains inactive in the oil until the high strength oil film begins to break down under the load. It then activates to produce a semi-fluid metallic sulfide, film on the gear teeth which prevents metal-to-metal contact. A special *oiliness agent* provides increased lubricity which is necessary for lubrication of worm and hypoid type gear sets where excessive sliding action occurs between gears. A *polar additive* is used to increase the affinity of the oil for metal surfaces thus allowing Steelco Industrial Gear Oil to literally climb gear trains and grip the surface of gears and bearings to provide maximum protection. Any gear oil without this additive will quickly drain off metal surfaces resulting in a condition of boundary lubrication and rapid wear. A *"cushioning" additive* of very high molecular weight helps prevent damage from shock loads encountered in certain gear applications by acting much as a pad between gear teeth to help absorb sudden shocks. This special combination of additives lends very special properties to Steelco Industrial Gear Oil with the added benefit that the lubricant may be run through filters as small as five microns without removing the additives. Additionally they are totally resistant to leaching out by water.

APPLICATIONS:

Steelco Industrial Gear Oil is recommended for lubrication of all types of gear drives including spur, helical, herringbone, hypoid, planetary and worm gears. Additional applications include flexible couplings, roller chain drives, and polished rod and packing boxes.

USERS BENEFITS:

- * SUPERIOR E.P. PROTECTION
- * COOLER GEARBOX OPERATION
- * REDUCED MAINTENANCE
- * NON FOAMING
- * EXCELLENT WATER SEPARATION
- * HIGH NATURAL VISCOSITY INDEX
- * EXCELLENT ADHESION TO METAL
- * PREVENTS RUST
- * INVENTORY VERSATILITY
- * LESS DOWNTIME
- * DISTINCTIVE COLOR

TYPICAL TEST DATA:

STEELCO CODE NO.	500	1000	2000	5000
SAE Grade	80	90	140	250
ISO Grade	100	220	680	1500
Vis SUS @ 100°F	520	1200	3100	7200
cST @ 40°C	100	220	680	1500
SUS @ 210°F	65	82	172	300
cST @ 100°C	11	18	37	60
Viscosity Index, min.	95	95	95	95
API Gravity	29.0	26.5	25.5	25.5
Flash Point, F.	430	470	470	570
Pour Point, F.	0	0	15	25
Timken Load, lbs.	100	100	100	100
AGMA No.	3EP	5EP	8EP	—
Color	Purple	Purple	Purple	Purple

AUTHORIZED DISTRIBUTOR: