



SUNOCO CHALLENGE PAO-EP SYNTHETIC GEAR LUBRICANTS

OVERVIEW

SUNOCO CHALLENGE PAO-EP SYNTHETIC GEAR LUBRICANTS are formulated with synthetic base stocks and fortified with select additive systems to enhance their exceptional performance. The PAO (Polyalphaolefin) base fluid used has outstanding oxidation and thermal stability, naturally high viscosity index and excellent low temperature pumpability and fluidity. The unique additive system used provides increased oxidation stability, extreme pressure properties, and maximum protection against wear, rust, corrosion and foaming.

APPLICATIONS

SUNOCO CHALLENGE PAO-EP SYNTHETIC GEAR LUBRICANTS are recommended for use in all types of enclosed gearing as well as plain and rolling element bearings. These lubricants are ideal for heavily loaded low speed gears and bearings such as mine hoist gear reducers. They are particularly recommended for gearboxes which operate under excessively high temperatures where good quality conventional oils rapidly oxidize. **SUNOCO CHALLENGE PAO-EP SYNTHETIC GEAR LUBRICANTS** are compatible with most seal materials, paints and plastics, including nitrile Buna N, neoprene, viton, teflon, polyethylene, polyurethane ether, fluorocarbon, polyacrylate, polysulfide, ethylene acrylic, epoxy, plastisol, PVC, acrylic paint and lacquer.

FEATURES & BENEFITS

SUNOCO CHALLENGE PAO-EP SYNTHETIC GEAR LUBRICANTS are formulated with 100% synthetic base stocks and fortified with select additive systems to enhance their exceptional performance. The synthetic base fluid used has outstanding oxidation and thermal stability, naturally high viscosity index and excellent low temperature pumpability and fluidity. The unique additive system used provides increased oxidation stability, extreme-pressure properties, and maximum protection against wear, rust, corrosion, and foaming.

SPECIFICATIONS

API GL-4 • U.S. Steel 224 • AGMA 9005-D94 • DIN 51517 Part 3 CLP

TYPICAL PROPERTIES

PRODUCT CODE	7983	7993	9823	9843	9853	9863	9873	9883	TBD	TBD
ISO Viscosity Grade	32	46	68	100	150	220	320	460	680	1000
AGMA Grade	--	1EP	2EP	3EP	4EP	5EP	6EP	7EP	8EP	8A EP
Viscosity, cSt @ 40 °C	31	42.9	67.1	95.7	147	232	342	490	700	947
Viscosity, cSt @ 100 °C	5.8	7.4	9.9	12.9	17.8	25.4	32.8	43.1	54.2	66.2
Viscosity Index	132	137	130	132	133	139	134	139	134	135
Flash Point, °C	243	246	249	252	252	252	252	252	252	252
Pour Point, °C	-50	-40	-42	-41	-45	-43	-40	-37	-34	-28
Copper Corrosion	1A	1A	1A	1A	1A	1A	1A	1A	1A	1A
Rust Prevention	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
Four-Ball Weld, kgs	200	200	200	200	315	315	315	315	315	400
Four-Ball Scar, mm	.50	.40	.30	.30	.39	.34	.30	.30	.30	.30
FZG Pass, Load Stage	12+	12+	12+	12+	12+	12+	12+	12+	12+	12+
Specific Gravity	.849	.851	.859	.862	.868	.877	.878	.882	.892	.890

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The data and OEM specifications listed are to the best of our knowledge accurate. This information listed is typical data and should not be considered a product standard nor a standard upon which acceptance or rejection of delivered product is to be based. It is the owner's responsibility to consult their equipment owner's manual and select the proper lubricant and viscosity grade for give application. This data is subject to change without notification.