



PRODUCT DATA SHEET



NO-TOX[®] SYNTEX FOOD GRADE SYNTHETIC PAG OIL

No-Tox Syntex Food Grade Synthetic PAG Oil, commonly known as No-Tox Syntex Oil, is a fully synthetic lubricating fluid based on PAG technology and is NSF H1 registered for use where incidental food contact may occur. **No-Tox Syntex Food Grade Synthetic PAG Oil** is designed for the lubrication of high temperature chains, enclosed gears including worm gears, and circulating oil systems that lubricate gears, bushings and anti-friction bearings found in the “clean” industries such as food, beverage, pharmaceutical and personal care products. Excellent anti-wear and anti-rust properties combined with mild Extreme Pressure properties make **No-Tox Syntex Food Grade Synthetic PAG Oil** an ideal choice for enclosed gears with long service intervals.

Applications

- ◆ Enclosed gear boxes, especially worm gears
- ◆ Chains, bushings and bearings

Features and Benefits

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|---|---|
| ◆ NSF H1 registered | Use where incidental food contact may occur. |
| ◆ Compliances | Kosher and Pareve approved. Halal certified. |
| ◆ Bacteriological protection | Effectively inhibits the growth of certain bacteria, yeast and mold in the lubricant. |
| ◆ Extreme Pressure and anti-wear properties | Maximizes component life helping to reduce replacement part costs and lost production time. |
| ◆ Excellent rust protection | Protects components from rust. |
| ◆ Oxidation inhibited | Reduces sludge and varnish build-up. |

General Description

No-Tox Syntex Food Grade Synthetic PAG Oil is engineered for use when industry demands are beyond the capability of mineral oil based products. **No-Tox Syntex Food Grade Synthetic PAG Oil**, formulated with the highest quality ingredients, meets NSF H1 and FDA requirements for materials that may have incidental contact with food as defined under Title 21 CFR, 178.3570. It is Kosher and Pareve approved, as well as Halal certified.

Product No. 61790, 61792, 61794, 61796, 61798, 61799

NO-TOX[®] SYNTEX
FOOD GRADE SYNTHETIC PAG OIL
TYPICAL PROPERTIES

<u>Product No.</u>	<u>61790</u>	<u>61792</u>	<u>61794</u>
ISO Viscosity Grade	150	220	320
AGMA Grade	4	5	6
Viscosity, ASTM D445			
@ 40°C, cSt	156	216	314
@ 100°C, cSt	26.5	35.8	50.0
Viscosity, ASTM D2161			
@ 100°F, SUS	790	1094	1592
@ 210°F, SUS	130	173	240
Viscosity Index, ASTM D2270	207	216	223
Base Fluid Type	← Polyalkylene Glycol (PAG) →		
Pour Point, ASTM D97			
°C	-32	-29	-27
(°F)	(-25)	(-20)	(-17)
Copper Strip Corrosion, ASTM D130			
3 hrs @ 100°C, rating	1b	1b	1b
Rust Test, ASTM D665, Procedure A & B	Pass	Pass	Pass
Falex EP Test, ASTM D3233 Method B			
Non-seizure Load, lbf	2000	2000	2000
4-Ball Wear Test, ASTM D4172			
@ 1200 rpm, 40 kg, 1 hr, 75°C			
Scar Diameter, mm	0.35	0.35	0.35
FZG Visual Test, ASTM D5182			
Failure Load Stage	>12	>12	>12
Flash Point, ASTM D92			
°C	232	232	235
(°F)	(450)	(450)	(455)
Specific Gravity, ASTM D1298, 60/60°F	0.997	1.000	1.000
Color	Pale Yellow	Pale Yellow	Pale Yellow

NO-TOX[®] SYNTEX
FOOD GRADE SYNTHETIC PAG OIL
TYPICAL PROPERTIES

<u>Product No.</u>	<u>61796</u>	<u>61798</u>	<u>61799</u>
ISO Viscosity Grade	460	680	1000
AGMA Grade	7	8	8A
Viscosity, ASTM D445			
@ 40°C, cSt	490	688	1003
@ 100°C, cSt	89.8	119	173
Viscosity, ASTM D2161			
@ 100°F, SUS	2461	3464	5047
@ 210°F, SUS	430	570	828
Viscosity Index, ASTM D2270	271	275	293
Base Fluid Type	← Polyalkylene Glycol (PAG) →		
Pour Point, ASTM D97			
°C	-32	-29	-29
(°F)	(-25)	(-20)	(-20)
Copper Strip Corrosion, ASTM D130			
3 hrs @ 100°C, rating	1b	1b	1b
Rust Test, ASTM D665, Procedure A & B	Pass	Pass	Pass
Falex EP Test, ASTM D3233 Method B			
Non-seizure Load, lbf	2000	2000	2000
4-Ball Wear Test, ASTM D4172			
@ 1200 rpm, 40 kg, 1 hr, 75°C			
Scar Diameter, mm	0.35	0.35	0.35
FZG Visual Test, ASTM D5182			
Failure Load Stage	>12	>12	>12
Flash Point, ASTM D92			
°C	232	232	246
(°F)	(450)	(450)	(475)
Specific Gravity, ASTM D1298, 60/60°F	1.014	1.020	1.050
Color	Pale Yellow	Pale Yellow	Pale Yellow