

PRODUCT DATA SHEET



NO-TOX® SYNTRA FOOD GRADE SYNTHETIC OIL

No-Tox Syntra Food Grade Synthetic Oil, commonly known as No-Tox Syntra Oil, is a series of full synthetic multipurpose lubricants that are NSF H1 registered for use where incidental food contact may occur. **No-Tox Syntra Food Grade Synthetic Oil** is a PAO-based, premium, nontoxic, high performance lubricant available in 11 grades ranging from ISO VG 15 to 1000. It is designed to give exceptional anti-wear and rust and corrosion protection in a wide range of applications including hydraulic systems, gear cases, chains, compressor, bearings and circulating systems and other applications found in the "clean" industries such as food, beverage, pharmaceutical and personal care products.

Applications

- ♦ Suitable for multi-service applications
- ♦ Hydraulic pumps, motors and actuators vane, piston, radial piston and gear
- ♦ Compressors and vacuum pumps
- Enclosed gears including spur, bevel and worm gears
- Circulating systems, chains, bearings, spindles, joints and others

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.
•	Fully synthetic	Long life, extended drain intervals.
•	Outstanding anti-wear properties	Excellent equipment protection.
•	Rust and oxidation protection	Reduces sludge and varnish build-up.

General Description

No-Tox Syntra Food Grade Synthetic Oil is a series water-white, odorless and tasteless synthetic base lubricating oils for a wide range of "clean" industries applications. **No-Tox Syntra Food Grade Synthetic Oil** is also filtered through a 2-micron filter system to achieve the highest cleanliness standards. **No-Tox Syntra Food Grade Synthetic Oil**, formulated with the highest quality synthetic oils and food grade additives, 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. 301067, 301315, 301316, 301590, 301591, 301068, 300934, 301592, 301317, 301318, 301593

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With continual research and development, Calumet reserves the right to change the information contained herein. The Company is not responsible for misuse or misapplication of its products.

NO-TOX® SYNTRA FOOD GRADE SYNTHETIC OIL

TYPICAL PROPERTIES

Product No.	<u>301067</u>	<u>301315</u>	<u>301316</u>	<u>301590</u>	
Old Product No.	<u>64233</u>	<u>64234</u>	<u>64235</u>	<u>64236</u>	
ISO Viscosity Grade	15	32	46	68	
Viscosity, ASTM D445 @ 40°C, cSt @ 100°C, cSt	15.6 3.69	31.4 6.04	45.8 7.85	67.8 10.5	
Viscosity, ASTM D2161 @ 100°F, SUS @ 210°F, SUS	84.7 38.7	161 46.5	234 52.5	347 61.9	
Viscosity Index, ASTM D2270	125	142	142	143	
Pour Point, ASTM D97 °C (°F)	-68 (-90)	-63 (-81)	-60 (-76)	-59 (-74)	
Copper Strip Corrosion, ASTM D130 3 hrs @ 100°C, rating	1a	1a	1a	1a	
Rust Test, ASTM D665, Procedure A & B	Pass	Pass	Pass	Pass	
Foam Test, ASTM D892 Sequence I, II, III, ml/ml	Nil	Nil	Nil	Nil	
Falex EP Test, ASTM D3233 Method B Non-seizure Load, lbf	2000	2000	2000	2000	
4-Ball Wear Test, ASTM D4172 @ 1200 rpm, 40 kg, 1 hr, 75°C Scar Diameter, mm	0.40	0.40	0.40	0.40	
Vickers Vane Pump Test, ASTM D7043 Total Mass Loss, mg	<15	<15	<15	<15	
FZG Visual Test, ASTM D5182 Failure Load Stage					
Specific Gravity, ASTM D1298, 60/60°F	0.810	0.835	0.838	0.841	
Color	Colorless to Pale Yellow	Colorless to Pale Yellow	Colorless to Pale Yellow	Colorless to Pale Yellow	
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NO-TOX® SYNTRA FOOD GRADE SYNTHETIC OIL

TYPICAL PROPERTIES

Product No.	<u> 301591</u>	<u>301068</u>	<u>300934</u>	<u>301592</u>	
Old Product No.	<u>64237</u>	<u>64238</u>	<u>64239</u>	<u>64240</u>	
ISO Viscosity Grade	100	150	220	320	
Viscosity, ASTM D445 @ 40°C, cSt @ 100°C, cSt	102 14.6	150 19.3	220 26.1	320 34.6	
Viscosity, ASTM D2161 @ 100°F, SUS @ 210°F, SUS	523 77.9	768 97.8	1138 128	1662 168	
Viscosity Index, ASTM D2270	148	148	151	153	
Pour Point, ASTM D97 °C (°F)	-55 (-67)	-53 (-63)	-47 (-53)	-45 (-49)	
Copper Strip Corrosion, ASTM D130 3 hrs @ 100°C, rating	1a	1a	1a	1a	
Rust Test, ASTM D665, Procedure A & B	Pass	Pass	Pass	Pass	
Foam Test, ASTM D892 Sequence I, II, III, ml/ml	Nil	Nil	Nil	Nil	
Falex EP Test, ASTM D3233 Method B Non-seizure Load, lbf	2000	2000	2000	2000	
4-Ball Wear Test, ASTM D4172 @ 1200 rpm, 40 kg, 1 hr, 75°C Scar Diameter, mm	0.40	0.40	0.40	0.40	
Vickers Vane Pump Test, ASTM D7043 Total Mass Loss, mg					
FZG Visual Test, ASTM D5182 Failure Load Stage	12+	12+	12+	12+	
Specific Gravity, ASTM D1298, 60/60°F	0.849	0.850	0.852	0.854	
Color	Colorless to Pale Yellow	Colorless to Pale Yellow	Colorless to Pale Yellow	Colorless to Pale Yellow	
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Calumet Branded Products, LLC • P.O. Box 526 • Farmingdale, NJ 07727 USA TEL +1 732-938-2421 • FAX +1 732-938-4232 • www.belray.com

NO-TOX® SYNTRA FOOD GRADE SYNTHETIC OIL

TYPICAL PROPERTIES

Product No.	<u>301317</u>	<u>301318</u>	<u>301593</u>			
Old Product No.	<u>64241</u>	<u>64242</u>	<u>64243</u>			
ISO Viscosity Grade	460	680	1000			
Viscosity, ASTM D445 @ 40°C, cSt @ 100°C, cSt	460 45.8	674 61.2	1000 84.1			
Viscosity, ASTM D2161 @ 100°F, SUS @ 210°F, SUS	2397 221	3527 295	5249 406			
Viscosity Index, ASTM D2270	156	159	165			
Pour Point, ASTM D97 °C (°F)	-42 (-44)	-39 (-38)	-33 (-27)			
Copper Strip Corrosion, ASTM D130 3 hrs @ 100°C, rating	1a	1a	1a			
Rust Test, ASTM D665, Procedure A & B	Pass	Pass	Pass			
Foam Test, ASTM D892 Sequence I, II, III, ml/ml Falex EP Test, ASTM D3233 Method B	Nil	Nil	Nil			
Non-seizure Load, lbf	2000	2000	2000			
4-Ball Wear Test, ASTM D4172 @ 1200 rpm, 40 kg, 1 hr, 75°C Scar Diameter, mm	0.40	0.40	0.40			
Vickers Vane Pump Test, ASTM D7043 Total Mass Loss, mg						
FZG Visual Test, ASTM D5182 Failure Load Stage	12+	12+	12+			
Specific Gravity, ASTM D1298, 60/60°F	0.856	0.856	0.859			
Color	Colorless to Pale Yellow	Colorless to Pale Yellow	Colorless to Pale Yellow			
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