



# PRODUCT DATA SHEET



## NO-TOX<sup>®</sup> 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. **No-Tox Syntra Food Grade Synthetic Oil** is NSF H1 registered for use where incidental food contact may occur. **No-Tox Syntra Food Grade Synthetic Oil** is a PAO-based, premium non-toxic, high performance lubricant. **No-Tox Syntra Food Grade Synthetic Oil** is available in 11 grades ranged from ISO VG 15 to 1000.

**No-Tox Syntra Food Grade Synthetic Oil** is designed to give exceptional anti-wear and rust and corrosion protection is 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*

- |                                    |   |
|------------------------------------|---|
| ◆ 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 mineral 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. 64233, 64234, 64235, 64236, 64237, 64238, 64239, 64240, 64241, 64242, 64243**

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## TYPICAL PROPERTIES

<b><u>Product No.</u></b>	<b><u>64233</u></b>	<b><u>64234</u></b>	<b><u>64235</u></b>	<b><u>64236</u></b>
ISO Viscosity Grade	15	32	46	68
Viscosity, ASTM D445				
@ 40°C, cSt	15.6	31.4	45.8	67.8
@ 100°C, cSt	3.69	6.04	7.85	10.5
Viscosity, ASTM D2161				
@ 100°F, SUS	84.7	161	234	347
@ 210°F, SUS	38.7	46.5	52.5	61.9
Viscosity Index, ASTM D2270	125	142	142	143
Pour Point, ASTM D97				
°C	-68	-63	-60	-59
(°F)	(-90)	(-81)	(-76)	(-74)
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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## TYPICAL PROPERTIES

<b><u>Product No.</u></b>	<b><u>64237</u></b>	<b><u>64238</u></b>	<b><u>64239</u></b>	<b><u>64240</u></b>
ISO Viscosity Grade	100	150	220	320
Viscosity, ASTM D445				
@ 40°C, cSt	102	150	220	320
@ 100°C, cSt	14.6	19.3	26.1	34.6
Viscosity, ASTM D2161				
@ 100°F, SUS	523	768	1138	1662
@ 210°F, SUS	77.9	97.8	128	168
Viscosity Index, ASTM D2270	148	148	151	153
Pour Point, ASTM D97				
°C	-55	-53	-47	-45
(°F)	(-67)	(-63)	(-53)	(-49)
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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## TYPICAL PROPERTIES

<b><u>Product No.</u></b>	<b><u>64241</u></b>	<b><u>64242</u></b>	<b><u>64243</u></b>
ISO Viscosity Grade	460	680	1000
Viscosity, ASTM D445			
@ 40°C, cSt	460	674	1000
@ 100°C, cSt	45.8	61.2	84.1
Viscosity, ASTM D2161			
@ 100°F, SUS	2397	3527	5249
@ 210°F, SUS	221	295	406
Viscosity Index, ASTM D2270	156	159	165
Pour Point, ASTM D97			
°C	-42	-39	-33
(°F)	(-44)	(-38)	(-27)
Rust Test, ASTM D665, Procedure A & B	Pass	Pass	Pass
Foam Test, ASTM D892			
Sequence I, II, III, ml/ml	Nil	Nil	Nil
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	0.40	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