



No-Tox[®] Syntra[™] Food Grade Synthetic Oil

PRODUCT DESCRIPTION

Bel-Ray[®] No-Tox[®] Syntra[™] Food Grade Synthetic Oil is a series of full synthetic multipurpose lubricants. No-Tox Syntra Food Grade Synthetic Oil is a PAO-based, premium, nontoxic, high-performance lubricant available in 8 grades ranging from ISO VG 32 to 460. 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.

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, Halal certified, and ISO 21469 certified.



Nonfood Compounds
H1 Registered,
ISO 21469 Certified

PRODUCT FEATURES and BENEFITS

- NSF H1 registered and ISO 21469 certified
- Kosher and Pareve approved
- Halal certified
- Bacteriological protection effectively inhibits the growth of certain bacteria, yeast, and mold in the lubricant
- Superior rust and corrosion prevention
- Excellent oxidation stability reduces sludge and varnish build-up and can extend drain intervals.
- Enhanced antiwear performance reduces friction and wear

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

DISTRIBUTED BY:

Calumet Branded Products, LLC
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Indianapolis, IN 46204
Technical Services: 317-328-5660
www.belray.com

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TECHNICAL DATA SHEET



PRODUCT DATA

Property	Test Method	Typical Properties							
		32	46	68	100	150	220	320	460
ISO Viscosity Grade		32	46	68	100	150	220	320	460
Density @ 15°C (g/mL)	ASTM D4052	0.81	0.835	0.838	0.849	0.85	0.852	0.854	0.856
Viscosity @ 40°C (cSt)	ASTM D445	31.4	45.8	67.8	102	150	220	320	460
Viscosity @ 100°C (cSt)	ASTM D445	6.04	7.85	10.5	14.6	19.3	26.1	34.6	45.8
Viscosity Index	ASTM D2270	142	142	142	148	148	151	153	156
Pour Point, °C (°F)	ASTM D97	-63 (-81)	-60 (-76)	-59 (-74)	-55 (-67)	-53 (-63)	-47 (-53)	-45 (-49)	-42 (-44)
Copper Corrosion, 3 h @ 100°C (Rating)	ASTM D130	1a	1a	1a	1a	1a	1a	1a	1a
Rust Prevention	ASTM D665A&B	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
Foam Test, Sequence I, Tendency/Stability (mL/mL)	ASTM D892	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
Foam Test, Sequence II, Tendency/Stability (mL/mL)	ASTM D892	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
Foam Test, Sequence III, Tendency/Stability (mL/mL)	ASTM D892	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
Falex Pin & Vee Block Test Method B, non seizure load (lbf)	ASTM D3233	2000	2000	2000	2000	2000	2000	2000	2000
4-Ball Wear Test, @ 1200 rpm, 40 kgf, 60 min, 75°C Scar Diameter (mm)	ASTM D4172	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Vickers Vane Pump Test, Total Mass Loss (mg)	ASTM D7043	<15	<15	<15	--	--	--	--	--
FZG (Fail Stage)	ASTM D5182	--	--	--	12+	--	--	--	--
Color		Colorless to Pale Yellow	Colorless to Pale Yellow	Colorless to Pale Yellow	Colorless to Pale Yellow	Colorless to Pale Yellow	Colorless to Pale Yellow	Colorless to Pale Yellow	Colorless to Pale Yellow

HEALTH and SAFETY

Health and safety recommendations for products can be found on the Safety Data Sheet (SDS) at www.belray.com

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