

No-Tox[®] HD Food Grade Oil

PRODUCT DESCRIPTION

Bel-Ray[®] No-Tox[®] HD Food Grade Oil, commonly known as No-Tox HD Oil, is a series of multipurpose white mineral lubricating oils. No-Tox HD Food Grade Oil, available in 10 grades from ISO VG 15 to 460, is designed to give exceptional anti-wear, rust and corrosion protection in a wide range of applications including hydraulic systems, gear cases, chains, compressors, bearings and circulating systems and other applications found in the “clean” industries such as food, beverage, pharmaceutical and personal care products.

No-Tox HD Food Grade Oil, formulated with the highest quality USP white mineral 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. ISO 21469 certified food grade lubricant.



Nonfood Compounds
H1 Registered,
ISO 21469 Certified

PRODUCT FEATURES

- NSF H1 registered and ISO 21469 certified
- Kosher and Pareve approved
- Halal certified
- Bacteriological protection
- Excellent anti-wear properties
- High demulsibility
- Rust and oxidation protection

BENEFITS

- Use where incidental food contact may occur
- Effectively inhibits the growth of certain bacteria, yeast and mold in the lubricant
- Excellent equipment protection
- Excellent water separability
- Long, trouble-free service life

APPLICATIONS

- Suitable for multi-service applications
- Hydraulic pumps, motors, actuators
- 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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TECHNICAL DATA SHEET



PRODUCT DATA

Typical Properties											
Property	Test Method	ISO 15	ISO 22	ISO 32	ISO 46	ISO 68	ISO 100	ISO 150	ISO 220	ISO 320	ISO 460
Density @ 15°C (g/mL)	ASTM D4052	0.851	0.860	0.862	0.866	0.872	0.874	0.879	0.882	0.880	0.888
Viscosity @ 40°C (cSt)	ASTM D445	14.60	21.30	32.40	45.90	67.10	104.00	151.00	228.00	318.00	452.00
Viscosity @ 100°C (cSt)	ASTM D445	3.33	4.21	5.42	6.81	8.74	11.70	15.50	20.50	26.60	35.80
Viscosity Index	ASTM D2270	96	100	101	102	102	100	105	105	110	119
Pour Point, °C (°F)	ASTM D97	-18 (0)	-18 (0)	-18 (0)	-18 (0)	-18 (0)	-15 (5)	-15 (5)	-15 (5)	-14 (7)	-14 (7)
Copper Corrosion, 3 h @ 100°C (Rating)	ASTM D130	1a	1a	1a	1a	1a	1a	1a	1a	1a	1a
Rust Prevention	ASTM D665 A&B	Pass	Pass	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	Nil	Nil
Foam Test, Sequence II, Tendency/Stability (mL/mL)	ASTM D892	Nil	Nil	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	Nil	Nil
Falex Pin & Vee Block Test Method B, non seizure load (lbf)	ASTM D3233	1500	1500	1500	1500	1500	1500	1750	1750	1750	1750
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	0.4	0.4
Vickers Vane Pump Test, Total Mass Loss (mg)*	ASTM D7043	<15	<15	<15	<15	<15	--	--	--	--	--
FZG Scuffing Test, A/8.3/90, Failure Load Stage**	ASTM D5182	--	--	--	--	--	12+	12+	12+	12+	12+
Color		Water-White	Water-White	Water-White	Water-White	Water-White	Water-White	Water-White	Water-White	Water-White	Water-White

*Vicker Vane Pump Test, Total Mass Loss (ASTM D7043) concerns only light viscosity oils used in hydraulics

**FZG Scuffing Test (ASTM D5182) concerns only heavier viscosity oils used for gear lubrication

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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