

TEC-GUARD

DEFEND

TEC-GUARD DEFEND WAY LUBES

Tec-Guard Defend Way Lubes are formulated for use in the slide ways of planers, grinders, horizontal boring machines, shapers, jig borers, and milling machines. These machine way lubricants incorporate state of the art friction modifiers to decrease machine chatter associated with stick-slip phenomena of slow moving heavy loaded machine parts. They contain proven EP and anti-rust technology to promote the long life of machine tools. These fluids are further enhanced by the addition of proprietary additives which promote excellent fluid adhesion to the moving surfaces which increase the fluid film strength, further reducing wear.

Tec-Guard Defend Way Lubes are formulated to provide excellent fluid separation from water, and full semi-synthetic metal working fluids. These fluids are fully approved for use in Cincinnati Milacron machining centers.

PROPERTIES

ISO GRADE	32	68	100	220
Specific Gravity @ 60°F	.874	.879	.881	.893
Viscosity @ 40°C, cSt	34	69	101	244
Viscosity @ 100°C, cSt	5.7	8.9	11.4	20.4
Viscosity Index	108	103	98	97
Demulsibility, ASTM D1401	40/40/0 (15) 54°C	40/40/0 (15) 54°C	40/40/0 (15) 54°C	40/40/0 (15) 82°C
Flash Point, °C	226	242	245	260
Pour Point, °C	-33	-33	-29	-18
Rust, ASTM D665B	Pass	Pass	Pass	Pass
Acid No. ASTM D974	0.28	0.28	0.28	0.28
Phosphorus, ppm	100	100	100	100
Sulfur, ppm	4000	4000	4000	4000
Copper Corrosion, ASTM D130	1b	1b	1b	1b
Precipitation Number	35	65	65	60
Cincinnati Milacron Stick - Slip	0.77	0.77	0.77	0.77

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The product described above is designed for a specific use and may not be valid for other uses not specified in our specification sheet or in applications not requiring this specific product. Tec-Guard believes that the information presented in this specification is accurate at the time it was written and is based upon internally generated information and information presented by its vendors. No representation, warranty, or guarantee is made as to its accuracy or completeness. We do not accept any liability for any loss or damage that may occur from the use of this information.

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TEC-GUARD DEFEND R&O TURBINE OIL

CHARACTERISTICS

ISO Viscosity Grade	Test Method	22	32	46	68	100	150	220	320	460
AGMA Grade				1	2	3	4	5	6EP	7EP
Viscosity @ 40°C, cSt	ASTM D 445	18-26	28-35	42-50	61-74	92-108	140-160	210-230	308-332	414-504
Viscosity Index	ASTM D 2270	>90	>90	>90	>90	>90	>90	>90	>90	>90
Pour Point, °C (°F)	ASTM 5949	-32 (-25)	-32 (-25)	-29 (-20)	-29 (-20)	-23 (-10)	-22 (-9)	-22 (-9)	-22 (-9)	-18 (0)
Flash Point, (°C)	ASTM D-92	220	220	226	235	240	240	240	240	243
Color	ASTM D-1500	2.0 max	2.0 max	2.0 max	2.5 max	2.5 max	3.0 max	4.5 max	4.5 max	4.5 max
Oxidation Life Hrs to 2.0 Acid No	ASTM 943	3200	3200	3200	3200	3200	3200	3200	3200	3200
Foam Tendency / Stability ml @ 75 °F	ASTM 892	60/0	60/0	60/0	60/0	60/0	60/0	60/0	60/0	60/0

Special Handling, Notices, or Warnings

- Avoid contact with skin. Rinse with soap and water immediately after skin contact.
- This product is unlikely to present and significant health hazards.
- Dispose of used oil properly.

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