

TEC-GUARD

DEFEND

EP GEAR OILS

APPLICATIONS

Tec-Guard Defend EP Gear Oils are premium quality industrial gear lubricants designed to provide excellent extreme pressure (EP) and load carrying properties. They are oxidation stable and exhibit anti-rust / anti-corrosion, demulsibility, and anti-foam characteristics. They meet the viscosity requirements of ISO 68 to 1000.

Tec-Guard Defend EP Gear Oils are formulated with new sulfur-phosphorus chemistry which provides improved anti-wear and friction reducing properties, which in turn cause gear sets to operate cooler and more efficiency.

SPECIFICATIONS

- AMGA 9005 - D94 EP
- ISO 12925-1 CKD
- DIN 51517 Part 3 - Group CLP
- AISI 224
- AFNOR NFE 60.200 - Category CKC
- CINNCINATI MILACRON P-74 (ISO 220) and P-59 (ISO 320)
- US STEEL 224
- DAVID BROWN ET 33/80
- FLENDER
- SEB 181226

ADVANTAGES

- Excellent extreme-pressure and anti-wear performances, remarkable protection of heavily loaded gear teeth.
- Compatibility with elastomers.
- Very good thermal stability ensuring a longer service life than conventional lubricants.
- Strengthened foaming protection. Good demulsification behavior.

TYPICAL CHARACTERISTICS	METHODS	DEFEND EP GEAR OIL							
		68	100	150	220	320	460	680	1000
AGMA Grade		2EP	3EP	4EP	5EP	6EP	7EP	8EP	8A
Color	ASTM D 1500	4.5	5.5	7.0	7.0	7.0	7.0	7.5	8.0
Viscosity @ 40°C, cSt	ASTM D 445	68	100	150	220	320	460	680	1000
Viscosity @ 100°C, cSt	ASTM D 445	8.7	11.8	14.8	18.5	23.7	29.9	34.5	43.5
Viscosity Index	ASTM D 2270	>95	>95	>95	>95	>95	>95	>95	>95
Density @ 60°F, lbs./gal.	ASTM D 1298	7.31	7.35	7.38	7.43	7.48	7.53	7.64	7.60
API Gravity		30.3	29.1	28.1	27.0	26.0	25.3	25.1	26.2
Pour Point, °F	ASTM D 97	5	5	5	5	5	5	10	10
Flash Point, COC, °F	ASTM D 92	450	470	490	500	530	530	500	530
Fire Point, COC, °F	ASTM D 92	480	500	520	530	560	560	530	560
Copper Strip Corrosion	ASTM D 130	1B	1B	1B	1B	1B	1B	1B	1B
Timken Load, lbs.	ASTM D 2782	--	--	65	65	65	70	70	70
FZG A/8.3/90	DIN 51 354/2	>13	>13	>13	>13	>13	>13	>13	>13
FZG Micropitting	FVA 54	--	--	--	10+	10+	10+	10+	10+
GFT Class		--	--	--	High	High	High	High	High
4 Ball Weld Load, daN	ASTM D 2783	250	--	--	250	--	--	--	--
4 Ball Wear, scar dia, mm (1h/400kg/1200rpm/75°C)	NFT 48617	0.34	--	--	0.25	--	--	--	--

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