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ADVANTAGE EP GEAR OILS

OVERVIEW

ADVANTAGE EP GEAR OILS are premium quality industrial gear lubricants made from highly refined base stocks and modern additive technology. These lubricants are designed to provide excellent performance when load carrying capacity is required due to extreme pressures and shock loading.

FEATURES & BENEFITS

ADVANTAGE EP GEAR OILS offer high thermal stability and utilize a modern Extreme Pressure additive system to maintain clean gear and bearing surfaces, minimize deposits, inhibit rust and corrosion and provide excellent water separation.

APPLICATIONS

ADVANTAGE EP GEAR OILS are designed for industrial enclosed gearing where an AGMA extreme pressure lubricant is specified. Spur, helical, bevel, and worm gear configurations subject to heavy loading and shock loading. Bath, splash, circulating or spray mist lubrication as applicable to the required viscosity grade.

SPECIFICATIONS

AGMA EP 9005-E02 • Cincinnati Lamb P-63 (ISO 68), P-76 (ISO 100), P-77 (ISO 150), P-74 (ISO 220), P-59 (ISO 320), P-35 (ISO 460) • David Brown M, A, E • DIN 51517, Part 3 (CLP) • ISO 12925-1 CKC/CKD • U.S. Steel 224

TYPICAL PROPERTIES

PRODUCT CODES	**616**	**629**	**625**	**617**	**621**	**618**	**683**
Product	EP 68	EP 100	EP 150	EP 220	EP 320	EP 460	EP 680
AGMA Number	2EP	3EP	4EP	5EP	6EP	7EP	8EP
Viscosity, cSt @ 40 °C, ASTM D445	68	100	150	220	320	460	680
Viscosity, cSt @ 100 °C ASTM D445	8.8	11.0	15.0	19.3	25.0	28.5	53.0
Viscosity Index ASTM D2270	99	98	98	95	95	95	113
Flash Point, COC, °C, min. ASTM D92	205	230	240	240	240	240	240
Pour Point, ° C ASTM D97	-30	-25	-25	-15	-15	-15	-5
FZG gear test, stages DIN 51354	12	12	12	12	12	12	12
Timken OK Load, lb. ASTM D2782	60	60	60	60	60	60	60
4-Ball Wear Test ASTM D2783							
Load-wear index, kgf	46.1	46.5	46.6	48.5	50.1	52.2	53.3
Weld Point, kgf	250	250	250	250	250	250	250
Steel Pin, Corrosion, ASTM D665 A/B	Pass	Pass	Pass	Pass	Pass	Pass	Pass
Copper Corrosion, ASTM D130	1B	1B	1B	1B	1B	1B	1B
Foam Seq. I/II/III, ASTM D892	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Demulsibility, ASTM D2711							
Free Water, ml	82.1	80.6	82.0	86.4	81.9	84.6	84.1
Water in oil, %	0.6	0.4	0.2	0.2	0.3	0.5	0.4
Emulsion, ml	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Demulsibility, ASTM D1401							
Emulsion at 82°C, ml	10	12	20	25	25	30	30
Density, ASTM D4052	.874	.881	.892	.891	.891	.887	.892