



VECTOR HD

PRODUCT DESCRIPTION:

Vector HD are synthetic PAO based gear oils designed to provide outstanding protection in industrial gear systems. They contain an advanced additive system designed to provide excellent protection against scuffing as well as a high level of resistance against micro pitting fatigue. Vector HD oils are designed for use in a wide range of applications including: reduction gearboxes, direct drives, angle drives, chain drives, gear couplings, hoist/winch gearboxes, screw feeder gearboxes, travel gearboxes, swing gearboxes, turret heads, workheads, and centralised circulation systems.

APPLICATION:

Vector HD's typical applications include: modern, highly loaded gearboxes used in the paper, steel, oil, textile, lumber and cement industries where gear protection and optimum oil life are required.

FEATURES & BENEFITS:

- Superb protection from micropitting fatigue wear as well as high resistance to traditional scuffing wear
- Excellent resistance to degradation at high temperatures
- High viscosity index
- Excellent resistance to rust and corrosion
- Excellent shear stability
- Excellent seal compatibility

PERFORMANCE LEVELS: Meets and Exceeds:

- US STEEL 224
- AGMA 250.04
- DAVID BROWN TABLE E 2E-9E

TYPICAL PROPERTIES:

PARAMETERS	TEST METHOD	UNIT	VECTOR HD							
			68	100	150	220	320	460	680	1000
ISO VG			68	100	150	220	320	460	680	1000
Kinematic Viscosity @ 104°F /40°C	ASTM D-7042	cSt	67.50	99.50	150	220	320	460	680	1000
Kinematic Viscosity @ 212°F /100°C	ASTM D-7042	cSt	10.42	14.18	22.2	30.4	40.6	54.1	75.5	99.4
Viscosity Index	ASTM D-2270	-	141	145	176	180	181	184	192	192
Flash Point (min)	ASTM D-92	°C	220	230	233	233	233	234	234	234
Pour Point (max)	ASTM D-97	°C	-45	-45	-45	-39	-33	-27	-27	-24
4 Ball EP Test - Weld Load	ASTM D-2783	kgf	200	200	200	200	200	200	200	200
4 Ball EP Test - Load Wear Index	ASTM D-2783	kgf	51	51	51	51	51	51	51	51



HEALTH & SAFETY, ENVIRONMENT:

Prolonged and repeated contact with oil may cause skin disorders. Avoid contact. Wash immediately with soap and water. Do not discharge used oil in to drains or the environment. Dispose to an authorized used oil collection point. For further Information on Safety Guidelines please refer to MSDS available on our website www.lubrex.net

HEALTH & SAFETY:

This product is not likely to present any significant health or safety hazards when properly used in the recommended application and good standards of personal hygiene are maintained. Reference is made to the Safety Data Sheet (SDS) which is available on request via your local sales office or via the internet www.lubrex.net

PROTECT THE ENVIRONMENT:

Take used oil to an authorized collection point. Comply with local regulation. Do not discharge into drains, soil or water.

STORAGE:

We recommend to store all packages under cover. In case outside storage is unavoidable, drums should be laid horizontally to avoid the possible ingress of water and damage to drum markings. Products should never be stored above 60°C, exposed to hot sun or freezing conditions.

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