



**GRIT HD**

**PRODUCT DESCRIPTION:**

GRIT HD gear oils are premium synthetic PAO-based lubricants engineered to deliver exceptional protection for industrial gear systems. They feature an advanced additive package that provides excellent resistance to scuffing and superior protection against micro-pitting fatigue. GRIT HD oils are suitable for a broad range of applications, including reduction gearboxes, direct drives, angle drives, chain drives, gear couplings, hoist/winch gearboxes, screw feeder gearboxes, TL gearboxes, swing gearboxes, turret heads, workheads, and centralized circulation systems. These oils ensure reliable performance and extended equipment life across diverse industrial operations.

**APPLICATION:**

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

**MEETS OR EXCEEDS:**

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

**TYPICAL PROPERTIES:**

PARAMETERS	TEST METHOD	UNIT	GRIT 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 D7042	cSt	67.50	99.50	150	220	320	460	680	1000
Kinematic Viscosity @ 212°F /100°C	ASTM D7042	cSt	10.42	14.18	22.2	30.4	40.6	54.1	75.5	99.4
Viscosity Index	ASTM D2270	-	141	145	176	180	181	184	192	192
Flash Point (min)	ASTM D92	°C	220	230	233	233	233	234	234	234
Pour Point (max)	ASTM D97	°C	-45	-45	-45	-39	-33	-27	-27	-24
4 Ball EP Test - Weld Load	ASTM D2783	kgf	200	200	200	200	200	200	200	200
4 Ball EP Test - Load Wear Index	ASTM D2783	kgf	51	51	51	51	51	51	51	51

**DISCLAIMER:** The test data presented above is indicative and not a strict specification, as it may vary within acceptable production tolerances. Internal reserves the right to update or modify this test data. For the most accurate and current information, please refer to the latest version of this Technical Data Sheet (TDS).

**HEALTH & SAFETY, ENVIRONMENT:**

Continuous or repeated exposure to oil may lead to skin problems. Avoid contact with the oil. In case of contact, wash thoroughly with soap and water. Do not dispose of used oil in drains or the environment. Dispose of it at an authorized used oil collection point. For additional safety information, please refer to the MSDS available on our website at [www.internal.net](http://www.internal.net).

**PROTECT THE ENVIRONMENT:**

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