

PRODUCT DATA

Vortex Synthetic Gear Lubricant 220

ISO GRADE 220

Fluids are high performance, zinc-free synthetic fluids for industrial machine applications. These fluids are 100% synthetic based products formulated with a combination of PAO and ester technology.

PROPERTY	TEST METHOD	TYPICAL RESULTS*
		SYN LUBE 220
Viscosity cSt @ 40°C	ASTM D-445	216
Viscosity cSt @ 100°C	ASTM D-445	26
Viscosity SUS @ 100°F	ASTM D-2161	1088
Viscosity SUS @ 210°F	ASTM D-2161	128
Viscosity Index	ASTM D-2270	155
Pour Point	ASTM D-97	-50°F / -46°C
Flash Point	ASTM D-92	510°F / 266°C
Fire Point	ASTM D-92	555°F / 291°C
API Gravity	ASTM D-287	36.7
Color	ASTM D-1500	1.0 max
Neutralization No.	ASTM D-974	0.8
Copper (Cu) Corrosion	ASTM D-130A	1a
ISO Viscosity Grade	***	220
SAE Gear Oil No.	***	90
AGMA No.	***	5
Four Ball Wear Test	ASTM D-4172	0.34mm

*Vortex Synthetic Gear Lubricant passed ASTM D-5182 and DIN 51354 Modified to 13 and 14 Stages.

Applications

Vortex Synthetic Gear Lubricant 220 can be used in a range of products, including:

- Vortex Inline Helical Speed Reducers (sizes VR28 through VR98)
- Vortex Shaft Mount Speed Reducers (sizes VXT2 XD through VXT10 XD)
- Vortex Worm Gear Speed Reducers (sizes X/XH/XS133 through X/XH/XS325)

Please refer to the ISO Viscosity tables in the Vortex catalogs to ensure the correct viscosity is selected for the application.

For non-Vortex speed reducers, please consult manufacturer-recommended lubrication specifications for whether a synthetic ISO Grade 220 gear oil is appropriate.