SPINTA GEAR EP 100 / 150 / 220 / 320 / 460 / 680

Product Code: SP-IN-EP-100 / SP-IN-EP-150 / SP-IN-EP-220 / SP-IN-EP-320 / SP-IN-EP-460 / SP-IN-EP-680

Extreme Pressure Lubricant for Industrial Gears

PRODUCT DESCRIPTION

SPINTA GEAR EP is a high-quality extreme-pressure lubricant developed for industrial gear systems operating under high loads and severe service. Sulfur-phosphorus EP additive technology provides load-carrying capability, anti-wear and anti-friction performance, oxidation resistance and reliable lubricating-film stability in heavily loaded gears and bearings.

APPLICATIONS & BENEFITS

Extreme-Pressure Protection EP additive technology protects heavily loaded gear teeth and bearings against wear and scoring.
Water Separation Good demulsibility enables excess water to separate for easier drainage from lubrication systems.
Thermal Stability Highly refined base oils and additives resist thermal and chemical degradation.

KEY PERFORMANCE BENEFITS

Wear & Corrosion Control Helps protect steel gears, bearings and related components under high mechanical loads.
Gear-System Versatility Suitable for enclosed gears, worm gear units, heavy-duty reducers and selected open-gear applications.
Stable Lubricating Film Strong film retention supports reliable operation under severe industrial conditions.

SPECIFICATIONS & PERFORMANCE LEVELS

Meets or exceeds the following specifications and performance levels; application statements as indicated:

- ISO-L-CKD; ISO 12925-1
- U.S. Steel 224 / 222 / 226
- David Brown S1.53.101 Type E; S1.53.106 Type H
- AGMA 9005-E02-2002; AGMA 250.04; AGMA 251.02
- DIN 51517 Part III CLP
- SEB 181.226 CLP; SEB 181.225 C&CL
- Volvo 97140 / 97125
- ASLE 68-1 / 68-2 / 68-3 / 68-4

Recommendation: Select the ISO viscosity grade and industrial-gear performance level required by the gearbox manufacturer. Do not use where a different chemistry or food-grade lubricant is specified.

TYPICAL PHYSICAL & CHEMICAL CHARACTERISTICS

Property	Test Method	100	150	220	320	460	680
ISO Grade	-	100	150	220	320	460	680
Density @ 15°C, kg/dm³	ASTM D 4052	0.880	0.885	0.890	0.900	0.905	0.910
Kinematic Viscosity @ 40°C, cSt	ASTM D 445	100	150	220	320	460	680
Kinematic Viscosity @ 100°C, cSt	ASTM D 445	11.0	15.0	19.0	24.0	31.0	39.0
Viscosity Index	ASTM D 2270	100	100	100	100	100	100
Copper Corrosion, 3h @ 100°C	ASTM D 130	1B	1B	1B	1B	1B	1B
Pour Point, °C	ASTM D 97	-24	-24	-24	-24	-18	-15
Flash Point, °C	ASTM D 92	230	230	230	240	240	280
4-Ball Welding Load, kg	ASTM D 2783	200	250	250	250	250	250
4-Ball Wear Load Index	ASTM D 2783	46	46	46	46	47	47
FZG / Exceeded Stage	DIN 51354	12+	12+	12+	12+	12+	12+
Timken OK Load, lbf	ASTM D 2783	65	65	65	65	65	65

Note: The values shown above are typical for normal production and may vary within normal manufacturing tolerances. They do not constitute a product specification or contractual limit.

STORAGE, HEALTH & ENVIRONMENT

STORAGE

Store under cover whenever possible. If outdoor storage cannot be avoided, containers should be protected from rain and water infiltration. Avoid temperatures above 60°C, direct sunlight and freezing conditions.

HEALTH & SAFETY

When properly used and handled in accordance with standard personal hygiene practices, the product is not expected to present adverse health effects under normal conditions of use. Refer to the corresponding SPINTA Safety Data Sheet (SDS) for detailed precautions and first-aid information.

ENVIRONMENT

Do not discharge new or used product into drains, sewage systems, soil or watercourses. Used product must be collected and delivered to an authorized collection or disposal facility in accordance with applicable regulations.

ADDITIONAL INFORMATION

Safety Data Sheet (SDS): The corresponding SPINTA Safety Data Sheet is available separately and should be consulted before handling or using the product.
Technical Service: SPINTA ITALIA S.r.l. | Viale C. Battisti 15, 27100 Pavia (PV) - Italy | info@spinta-lub.it | www.spinta-lub.it