

GEAR SP

EXTREME-PRESSURE LUBRICANTS FOR INDUSTRIAL GEARS AND BEARINGS



APPLICATIONS

GEAR SP are lubricants for closed gears with very high extreme pressure and anti-wear properties. They can be used in the following organs :

- Industrial gears (worm gears type with ISO 460 grade).
- Gear boxes.
- Marine and reverse gears.
- Chains.
- Oil lubricated rolling bearings with very slow or discontinuous use.
- Heavy loaded bearings.

BENEFITS

- Non corrosive towards bronze.
- **GEAR SP** do not contain chlorine nor lead.
- Extreme-pressure property reinforced : FZG measure (stage 12) shows a 9 % gain in comparison to products having a FZG stage of 11.
- Stable in operation : the AGMA 9005-E02 oxidation test is more severe than the old AGMA 250.4 oxidation test: **the draining period therefore increases to 10%.**
- Excellent demulsibility with water.

PERFORMANCES

PERFORMANCE LEVELS

AGMA 9005-E02
 DIN 51517 Part 3 CLP
 NF ISO 6743-6 L-C KD
 US STEEL 224
 DAVID BROWN S1.53.101

CHARACTERISTICS

CHARACTERISTICS	UNITS	METHODS	TYPICAL DATA			
ISO grade	-	-	68	100	150	220
Specific gravity at 15°C	kg/m ³	NF T 60-101	878	885	888	888
Kinematic viscosity at 40°C	mm ² /s	NF T 60-100	68	97	157,3	232,8
Kinematic viscosity at 100°C	mm ² /s	NF T 60-100	8,7	11,05	15,1	19,8
Viscosity index	-	NF T 60-136	100	98	95	96
Pour point	°C	NF T 60-105	-24	-21	-21	-15
Flash point	°C	NF T 60-118	240	250	242	272
TAN	mg KOH/g	ASTM D 664			0,54	

This typical data is given for information only



7220
 711V
 7220
 711V

CHARACTERISTICS	UNITS	METHODS	TYPICAL DATA				
ISO grade	-	-	320	460	680	1 000	1 500
Specific gravity at 15°C	kg/m ³	NF T 60-101	895	895	898	900	900
Kinematic viscosity at 40°C	mm ² /s	NF T 60-100	323	461	710	994	1490
Kinematic viscosity at 100°C	mm ² /s	NF T 60-100	24,3	30,5	40	53,6	68,8
Viscosity index	-	NF T 60-136	96	95	97	102	101
Pour point	°C	NF T 60-105	-15	-15	-9	-9	-9
Flash point	°C	NF T 60-118	285	294	295	298	310
TAN	mg KOH/g	ASTM D 664	0,54				

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The ISO grade 220 of **GEAR SP** has following characteristics :

Copper corrosion 3 h at 100°C	NF M 07015	1b
Foaming (ml) sequences I, II, III	NF T 60129	0 / 0
Timken charge OK (lb)	ASTM D 2782	65
4 ball test :		
- Welding load (kg)	ASTM D 2783	250
- Wear diameter (mm)	ASTM D 4172	0,32
FZG	DIN 51354 / 2	reaches stage 12
Demulsibility (ml(min))	NF T 60125	38 / 38 / 4 (20)

HEALTH, SAFETY AND ENVIRONMENT

Elimination must be carried out to conform to the rules set for the disposal of used oils.

Must be stored away from bad weather.

Should you need further details, our Technical Department remains at your disposal