

Special oils with extreme pressure properties enabling them to withstand impact and high pressures. Prepared using high viscosity index bases and sulfophosphorated additives, they have good anti-rust, anti-foam and anticorrosion properties.

## PERFORMANCES

### Specifications :

DIN 51517-3  
 ISO 12925-1 CKD  
 Cincinnati Lamb Gear (C series)  
 AGMA 9005-E02EP  
 David Brown (type A et E)  
 SEB 181226  
 US Steel 224

## USES

- All gears and reduction gearboxes in casings Gearboxes and feed drives for machine tools
- Journals subject to high loading
- Chain speed regulators (PIV type)
- Equipment used in quarries, mines and metallurgy: presses, crushers, etc.

Characteristics	Units	Standards	68	100	150	220
Density at 15°C	kg/m <sup>3</sup>	NF T 60-101	885	893	898	907
V.O Flash point	°C	NF T 60-118	207	225	231	240
Fire point	°C	NF T 60-118	219	258	267	264
Pour point	°C	NF T 60-105	- 33	- 21	- 18	- 12
Kinematic viscosity at 40°C	mm <sup>2</sup> /s	NF T 60-100	69.7	97	156.4	232.3
Kinematic viscosity at 100°C	mm <sup>2</sup> /s	NF T 60-100	9.0	11.8	15.1	19.0
Engler Viscosity at 50°C	°E	-	5.8	8.3	11.9	16.5
Viscosity index	-	NF T 60-136	103	111	96	90

Characteristics	Units	Standards	320	460	680	1000	1500
Density at 15°C	kg/m <sup>3</sup>	NF T 60-101	915	920	926	906	910
V.O Flash point	°C	NF T 60-118	246	249	264	285	288
Fire point	°C	NF T 60-118	279	291	300	303	312
Pour point	°C	NF T 60-105	- 12	- 9	- 6	- 6	- 6
Kinematic viscosity at 40°C	mm <sup>2</sup> /s	NF T 60-100	342.2	486	698.7	946	1522
Kinematic viscosity at 100°C	mm <sup>2</sup> /s	NF T 60-100	24.2	30.0	37.8	61	81
Engler Viscosity at 50°C	°E	-	23.9	33	46.8	73	105
Viscosity index	-	NF T 60-136	91	89	90	124	120

The following results (given for information only) were obtained on a standard 220 grade formulation:

Characteristics	Units	Standards	220
Desemulsification	min	ISO 6614	10
Copper corrosion 100°C 3h		ISO 2160	1B
FZG A/8.3/90	Load stage	ISO 14635-1	Pass 12
4 EP balls – welding load	kg	ASTM D 2783	250
Timken OK Load	lbs	ASTM D2782	60
Brugger	N/mm <sup>2</sup>	DIN 51347	46,7

*Characteristics are given for information only and correspond with our manufacturing standards. IGOL reserves the right to modify them to provide its customers with the benefits of technical progress. Before using this product read the instructions for use and the environmental impacts mentioned in the technical and safety data sheets. The information given above is based on the current level of knowledge relative to the product concerned. The product user should take all useful precautions relative to its use. IGOL can in no circumstances be held responsible for damage resulting from incorrect use.*

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