

CHAMPION EP GEAR OIL ISO 46

DESCRIPTION :

These are extreme pressure oils for industrial gears. The paraffinic character of the base oil ensures an excellent course of the viscosity/temperature and a high resistance against oxidation and ageing. These favorable properties of natural base oils are further strengthened by the addition of appropriate additives. The high pressure additives based on sulfur and phosphorus compounds form a chemical film on tooth surfaces and as such prevents wear and a noticeable reduction in friction. Special anti-corrosion and anti-foam additives complete the composition of these oils.

APPLICATIONS :

They are recommended for the lubrication of gearboxes (lubrication by oil bath, oil mist or oil circulation) and they are specially suitable for heavy loads and high temperature.

SPECIFICATION LEVEL :

DIN	CLP (according to DIN 51517 part 3);
AGMA	9005-E02
DAVID BROWN	S1.53.101 E;
AISE	224.

TYPICAL CHARACTERISTICS :

Test	Method	Unity	Average result				
ISO-grade			46	68	100	150	220
Density at 15°C	D 4052	kg / m ³	880	881	885	890	897
Viscosity at 40°C	D 445	cSt	44	72	94	152	228
Viscosity at 100°C	D 445	cSt	6,6	9,2	10,6	14,5	19,4
Viscosity index	D 2270		101	103	95	93	97
Pour point	D 6892	°C	-27	-24	-24	-24	-21
Flash point COC	D 92	°C	224	225	235	240	245
FZG A/16,6/140	DIN 51354	Level	12	12	12	12	12
TAN	D 974	g KOH/kg	0,38	0,38	0,38	0,38	0,38

Test	Method	Unity	Average result			
ISO-grade			320	460	680	1000
Density at 15°C	D 4052	kg / m ³	900	905	923	925
Viscosity at 40°C	D 445	cSt	330	434	675	975
Viscosity at 100°C	D 445	cSt	24,2	27,6	36	42,4
Viscosity index	D 2270		94	88	86	78
Pour point	D 6892	°C	-21	-18	-9	-2
Flash point COC	D 92	°C	255	260	262	265
FZG A/16,6/140	DIN 51354	Level	12	12	12	12
TAN	D 974	g KOH/kg	0,38	0,38	0,38	0,38

We reserve the right to alter the general characteristics of our products in order to let our customers benefit of the latest technical evolutions.