



PRODUCT DATA SHEET

Havens IGO CLPF series

DESCRIPTION

Havens IGO CLPF series – high performance EP/AW gear oil with MoS2 (black color).

Havens IGO CLPF series are extreme pressure gearbox oils with synergetic chemical EP/AW additives and physical MoS2-based solid lubricants. The MoS2-based solid lubricants are physically effective and cover a wide range of temperatures in boundary friction conditions. They reduce friction and have a damping effect. Excellent wear protection in boundary friction conditions, good dirt suspension properties (detergent effect), low foaming, very good FE8 roller bearing wear protection as well as zinc- and silicone oil-free.

APPLICATIONS

Every industrial lubricant recommendation should be done after an expert consultation on the application in question. Only then the best lubricant can be selected. Havens industrial gear oils series “IGO” are fitted to all your industrial applications.

For highly-stressed gearboxes operating at low speeds and high loads, even when subject to shock loading, for noise reduction and for the lubrication of spindles and gear-boxes in forging presses.

PERFORMANCE LEVELS

Meets and exceeds:

- Havens IGO CLPF series of oils surpass the minimum requirements of CLPFD lubricating oils according to DIN 51 517, Part 3 (2004) together with DIN 51 502, ISO 6743-6, ISO 12925-1: CKC, CKD.

TYPICAL PROPERTIES

PARAMETERS	TEST METHOD	UNIT	HAVENS IGO CLPF series				
Product Name	-	-	100	220	320	460	680
Density at 15 °C, kg/m3	-	kg/m3	891	901	900	911	922
Flash point Cleveland, °C	-	°C	240	260	255	255	270
Kinematic viscosity at 40 °C, mm2/s	-	°C, mm2/s	100	220	320	460	680
Kinematic viscosity at 100 °C, mm2/s	-	°C, mm2/s	11,2	18,8	24,0	30,4	36,8
Viscosity Index	ASTM D2270	-	98	95	95	95	88
Pour Point, °C	ASTM D92	°C	-21	-21	-14	-12	-10

The values shown above are typical values at the date of publication. Havens Lubricants reserves the right to change these typical values without prior notice.

HEALTH & SAFETY, ENVIRONMENT:

Prolonged and repeated contact with oil may cause skin disorders. Avoid contact. Wash immediately with soap and water. Do not discharge used oil in to drains or the environment. Dispose to an authorized used oil collection point. For further Information on Safety Guidelines please refer to MSDS available on our website www.havenslubricants.com.