



PRODUCT DATA SHEET

Havens Hydraulique ZAF series

DESCRIPTION

Havens Hydraulique ZAF series zinc- and ash-free, demulsifying and universally usable hydraulic and industrial gear oils.

Havens Hydraulique ZAF series re zinc- and ash-free, demulsifying and universally usable hydraulic and industrial gear oils of the latest generation with excellent ageing stability, outstanding wear protection (FZG A/8.3/90: >12) and high corrosion protection. HAVENS HYDRA XP ZAF oils fulfill and surpass the requirements on hydraulic oils acc. to DIN 51524-2: HLP and ISO 11158-HM as well as on industrial gear oils DIN 51517-3: CLP.

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 hydraulic oils series “HydraXP” are fitted to all your industrial applications.

Havens Hydraulique ZAF series oils are high grade products, which can be used in all hydraulic systems. **Havens Hydraulique** products are recommended for use in machine tools where contact between hydraulic fluids and metalworking oils can take place.

Available in VG 10, 22, 32, 46, 68, 100, 150.

PERFORMANCE LEVELS

Fulfil and surpass the minimum demands of DIN 51524-2: HLP and ISO 11158-HM as well as on industrial gear oils DIN 51517-3: CLP.

TYPICAL PROPERTIES

HAVENS	TEST METHOD	UNIT	Havens Hydraulique ZAF series						
Product Name	-	-	10	22	32	46	68	100	150
Density at 15 °C, kg/m3	-	kg/m3	845	868	875	877	881	883	889
Flash point Cleveland, °C	-	°C	168	165	210	220	225	248	250
Kinematic viscosity at 40 °C, mm2/s	-	°C, mm2/s	10	22	32	46	68	100	150
Kinematic viscosity at 100 °C, mm2/s	-	°C, mm2/s	2.7	4,3	5,4	6,9	8,9	11,4	14,8
Viscosity Index	ASTM D2270	-	108	105	102	105	105	100	98
Pour point, °C	ASTM D92	°C	-33	-30	-30	-27	-24	-18	-18



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.

