



# SHELL TELLUS<sup>®</sup> FLUID HD

## Anti-wear synthetic hydraulic fluid

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### Product Description

Shell Tellus<sup>®</sup> Fluid HD is an anti-wear, hydraulic fluid based on advanced synthetic hydrocarbon technology. Shell Tellus<sup>®</sup> Fluid HD is available in ISO viscosity grade 32. The use of synthetic base fluids with carefully selected additives results in excellent oxidation stability and a wide temperature operating range.

### Application

- gear, vane, and piston pumps, particularly those operating over a wide temperature range

### Features/Benefits

- excellent oxidation stability
- excellent anti-wear performance
- higher viscosity indexes and lower pour points than mineral oils resulting in performance over a wider temperature range
- good low temperature fluidity
- promotes longer fluid life than petroleum-oil based hydraulic oils

### Approvals and Recommendations

- Denison HF-O
- Vickers M-2950-S (Mobile) and I-286-S (Industrial)
- Sundstrand
- Cincinnati Machine

C-M SPECIFICATION	SHELL PRODUCT
P-68	<b>Tellus Fluid HD 32</b>

<b>Typical Properties of Shell Tellus® Fluid HD</b>		
	Test Method	ISO Viscosity Grade
		32
Product Code		65475
Specific Gravity, 15.6°C	D1298	0.829
Density, Lb/Gal, 15.6°C		6.93
Viscosity:		
@ 40°C, cSt	D445	30.4
@ 100°C cSt	D445	5.8
Viscosity Index	D2270	136
Flash Point, COC, °C	D92	230
Pour Point, °C	D97	<-54
Fire Point, COC, °C	D92	266
Rust Protection, ASTM		
	D665A	Pass
	D665B	Pass
Foam Seq. I	D892	Trace
Seq. II	D892	Trace
Seq. III	D892	Trace
Emulsion, vol @ 130°F (minutes)	D1401	40/40/0 (15)
Air Release, 50°C, minutes	DIN 51381	1
PNEUROP Oxidation, % residue	DIN 51352	0.1
Vapor Pressure, mm Hg	Isoteniscope	
@ 300°F		0.7
@ 400°F		3.8
@ 450°F		7.2
Specific Heat, Cp, CAL/g- °C	D2766	
37.8°C (100°F)		0.52
93.0°C (200°F)		0.57
Thermal Conductivity, Heat Probe Method	Heat Probe	
BTU/HR - FT - [°F / Ft]		
37.8°C (100°F)		0.089
93.0°C (200°F)		0.087
FZG Gear Test, stage	DIN 51354	11

### **Handling & Safety Information**

For information on the safe handling and use of this product, refer to its Material Safety Data Sheet <http://www.shell-lubricants.com/msds/>. If you are a Shell Distributor, please call **1+800-468-6457** for all of your service needs. All other customers, please call **1+800-840-5737** for all of your service needs. Information is also available on the World Wide Web: <http://www.shell-lubricants.com/>.