



TECHNICAL DATA SHEET

Helens GHS Range

Multi-functional machine lubricants

Product Description:

The Helens GHS range of lubricants are premium quality, ashless, multi-functional oils designed to satisfy the needs of machine tools and general factory equipment. Helens GHS grades exhibit outstanding demulsifying properties making them the first choice for use as slideway oils with water based metalworking coolants. When in contact with the coolant, very rapid separation of the lubricant allows for quick and easy removal. In addition Helens GHS grades possess excellent anti-wear, extreme pressure, lubricity and rust protection properties along with a high degree of oxidation resistance. This makes them the ideal choice for gear and hydraulic applications allowing for product rationalisation and stock inventory reduction.

Benefits:

- Multi-functional applications
- Outstanding demulsibility
- Excellent anti-wear properties
- Stick-slip prevention
- High lubricity

Product Specification:

Helens GHS Grades have demonstrated performance to the following specifications:

- DIN 51524 - 2 HLP
- DIN 51517 - 3 CLP
- Cincinnati Lamb P-47 (ISO 68 grade)

Applications:

Recommended for a wide variety of machine lubrication requirements. In particular, Helens GHS grades are highly effective machine tool slideway lubricants and demonstrate excellent performance in hydraulic, industrial gear and bearing applications.

Typical Physical Properties:

Product Helens GHS	32	46	68	100	150	220	320	460
Specific Gravity @ 15.6°C	0.872	0.875	0.880	0.883	0.890	0.895	0.899	0.903
Kinematic Viscosity @ 40°C (cSt)	32.0	46.0	68.0	100.0	150.0	220.0	320.0	460.0
Kinematic Viscosity @ 100°C (cSt)	5.33	6.70	8.60	11.20	14.70	19.00	24.2	30.5
Viscosity Index	98	97	97	97	96	96	96	96
Flash Point (COC °C)	215	224	234	246	255	260	275	298



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Test Data:

Property	ASTM Method	Unit	Result
Frictional Test	CCMC Stick-Slip	-	0.78
Thermal Stability	CCMC Thermal B		
Sludge		-	None
Acid Number Increase		mg KOH/g	0.02
Steel Rod Visual		-	1
Steel Deposit		mg	0.2
Steel Weight Loss		mg	0
Copper Rod Visual		-	3.5
Copper Deposit		mg	1.4
Copper Weight Loss		mg	1.1
Demulse			
82°C	D1401	mins.	40-40-0 (10 mins.)
54°C	D1401	mins.	43-37-0 (20 mins.)
Copper Corrosion 100°C	D130	-	1B
Salt Water Steel Corrosion	D665B	-	0, Pass
4 Ball Wear Scar	D4712M (20kg)	mm	0.303
FZG A/8.3/90	D5182	load stage	Pass 12