



SHELL CLAVUS[®] OILS

Refrigeration compressor oils

Product Description

Shell Clavus[®] Oils are highly refined naphthenic base petroleum oils intended for use in compression refrigeration systems containing non-hydrofluorocarbon refrigerants such as R-12, R-22, R-502 and ammonia.

Shell Clavus[®] Oils are specifically processed for use in refrigeration systems. This series covers the two viscosity grades required to meet the needs of most residential and industrial refrigeration systems.

Applications

- reciprocating and rotary refrigeration compressor systems
- ammonia refrigeration compressors where operating conditions are moderate and economical oils are desired, for more severe operating conditions in ammonia service, please see **Shell Clavus S 68**

Features/Benefits

- excellent thermal and chemical stability for long service life to reduce oil thickening and deposit formation
- low waxing tendency for good low temperature performance
- excellent lubricity which guards against wear of compressor parts
- low moisture content as received
- compatible with system materials

Approvals and Recommendations

- The **Shell Clavus** series is recommended for all types of refrigeration systems using refrigerant gases such as ammonia or CFC and HCFC refrigerants such as R-11, R-12, R-500, R-502, R-22, R-123, etc. Due to different refrigerant miscibility characteristics, these products **are not** recommended for use with HFC refrigerants such as R-134a.

Note: Shell Clavus Oils are **NOT** recommended for use in breathing air compressors.

Typical Properties of Shell Clavus Oils

Product Code	Test Method	ISO Viscosity Grade	
		32	68
		67028	67029
Appearance			
Color	D 1500	L 0.5	L 1.0
Gravity, °API	D 1298	24.4	23.5
Viscosity:			
@ 40°C, cSt	D 445	28.8	63.9
@ 100°C, cSt	D 445	4.33	6.77
@ 100°F, SUS	(calc.)	151	336
@ 210°F, SUS	(calc.)	40.9	49.0
Viscosity Index	D 2270	10	33
Flash Point , °F (°C)	D 92	355 (179)	385 (196)
Pour Point, °F (°C)	D 97	-45 (-42)	-35 (-37)
Total Acid Number, mg KOH/g	D 974	< 0.02	< 0.02
Aniline Point, °F (°C)	D 611	178 (81)	172 (78)
Copper Corrosion, 1hr at 100°C	D 130	1b	1b
Dielectric Strength, kV	D 877	35	35
Dielectric Breakdown, secs		30	30
Floc Point with R-12, °F (°C)	ASHRAE 86	-70 (-57)	-65 (-53)
Sealed Tube Stability, 336 hrs at 175°C amount of R-22 formed, wt%	ASHRAE 97	???	???

Handling & Safety Information

For information on the safe handling and use of this product, refer to its Material Safety Data Sheet at <http://www.equivashellmsds.com>. For more information and availability, call **1+800-782-7852** or visit the World Wide Web: <http://www.shell-lubricants.com/>.