

Premium Refrigeration System Lubricants

Cross-Reference

	ISEL Product #	FES	Vilter	FES	Mycom	Shell	Mobile	Chevron	Texaco	Nu-Calgon	CPI	Fuchs	Camco	Cornell Puimp	Copeland	Sunoco	Bitzer
Ammonia Refrigeration Systmes	2033	#2a/#3/#9	Vilter-717	FES #1	MyCold-AB-68	Clavus S-68		Amm. Refrig Oil-68	Capella-68		4600-68	Reniso K-68	Camco 717			4 GS	G-68
	2233																
	2333	#11	HCL-68								4619-68		4619-68				
Ammonia Pump Fluid	2755									Cal-Vac	4600-15		4600-15	Cornell Pump Fluid			
	2755-LT																
HCFC +CFC Refrigeration System	4003-32	#6			Clavus AB-32		Zerice S-32			Zerol-150	4700-32	Reniso SP-32	Alkyl-32				Bitzer B 5.2
	4003-46						Zerice S-46			Zerol-200TD	4700-46	Reniso SP-46	Alkyl-46				
	4003-68	#2a/#7	F-68		MyCold-68	Clavus AB-68	Zerice S-68			Zerol-300	4700-68	Reniso S-68	Alkyl-68				
	4003-100						Zerice S-100				4700-100	Reniso SP-100	Alkyl-100				Bitzer 100
	4003-150										4700-150		Alkyl-150				
	4004-32	#5				Clavus-32	Garg Artic-155	Refrig Oil WF-32	Capella WF-32	C-3	4214-32	Reniso KM-32	4214-32			3 GS	
	4004-46						Garg Artic-C	Refrig Oil WF-46	Refrig Oil WF-46	C-4	4214-46	Reniso KS-46	4214-46		Copeland 45BWMO	4 GS	
	4004-68		Vilter-D			Clavus-68	Garg Artic 300	Refrig Oil WF-68	Refrig Oil WF-68	C-5	4214-68	Reniso KC-69	4214-68				
4004-100										4214-100	Reniso KES/ TES-100	4214-100			5GS		
4004-150										4214-150		4214-150					
HFC Ref. Systems	4225-32						EAL Artic-32			Emkarate 32CF, 32S	Solest S-32	Reniso Triton SEZ 32	Solest S-32		Copeland Ultra 32CC/ 32-3MAF	SL-32S	BSE 32
	4225-46						EAL Artic-46			Emkarate 46CF, 46S	Solest S-46	Reniso Triton SEZ 46	Solest S-46				BSE 55
	4225-68	#13	B-68				EAL Artic-68		Capella HFC-68	Emkarate 68H, 68S	Solest S-68	Reniso Triton SEZ 68	Solest S-68			T-68	
	4225-100						EAL Arctic 100				Solest S-100	Reniso Triton SEZ 100	Solest S-100				
CO2 Ref Systems	2884-32																
	2884-46																
	2884-68	#14									4624-68						
	2884-100		HCL-100														



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Refrigeration Lubricants

Recommended Lubricant per Refrigerant and min Evap Temp

Recommended Lubricant per Refrigerant

Refrigerant		Lubricant
Name	Type	
R-12	CFC	4003/4004/4005
R-124	HFC	4225
R-134a	HFC	4225
R-22	HCFC	4003/4004/4005
R-290	Propane	4055
R-600	Butane	4055
R-401a	HCFC	4003/4004
R-401b	HCFC	4003/4004
R-402a	HCFC	4003/4004/4005
R-402b	HCFC	4003/4004/4005
R-403b	HCFC	4003/4004/4005
R-404a	HFC	4225
R-407c	HFC	4225
R-408a	HCFC	4004/4005
R-409a	HCFC	4003/4004
R-410a	HFC	4225
R-414b	HCFC	4003/4004
R-416a	HCFC	4225
R-417a	HFC	4225
R-422a	HFC	4225
R-422d	HFC	4225
R-427a	HFC	4225
R-507	HFC	4225
R-508B	HFC	4225
R-717	Ammonia	2033/2733
R-744	CO ₂	2884

Recommended Lubricant per min. Evap. Temp.

Refrigerant Type	Evaporator Temp	Recommended Lubricant
CFC	> -35°C	4004
CFC	< -35°C	4005
HCFC	> -35°C	4004
HCFC	< -35°C	4005
HFC	< -45°C	4225
Ammonia	> -40°C	2033
Ammonia	< -40°C	2733

Refrigeration Lubricants

Recommended Lubricant per Refrigeration Compressor

Manufacturer	Unit Type	Ref Type	Recommended Lubricant
ASPERA	Hermetic	R-12/R-22	4004-46
	Hermetic	R-134a/R-404a	4225-100
APV Baker	Hall Screw Comp	R-134a/R-404a	4225-100
Bitzer	Piston (open & hermetic)	R-134a/R-404a	4225-68
	Piston (open & hermetic)	R-22	4004-46
	Open piston	R-717 (Ammonia)	2033
	Open screw	R-22	4004-100
	Hermetic screw	R-134a/R-404a	4225-170
	Screw	R-717 (Ammonia)	2033
	Scroll	R-22	4004-32
	Scroll	R-134a	4225-32
Bock	Semi-hermetic piston	R-22	4004-46
	Bus a/c	R-134a	4225-68
	Semi hermetic piston	R-134a/R-404a	4225-68
	Open piston	R-717 (Ammonia)	2033
	Open piston	R-134a/R-404a	4225-55
Borsig	Turbo Compressor	R-12	4004-100
	Turbo Compressor	R-22	4004-46
	Turbo Compressor	R-717 (Ammonia)	2033
	Turbo Compressor	R-290 (Propane)	4055-100
	Turbo Compressor	R-134a	4225-100
Bristol	Hermetic	R-12/R-22	4004-32
	Piston	R-134a/R-404a	4225-32
Carrier (Caes/Transicold)	Piston	R-134a/R-404a	4225-32
	Centrifugal	R-134a/R-404a	4225-32
Carrier/Carlyle	Piston	R-134a/R-404a	4225-68
	Screw	R-134a/R-404a	4225-100
Copeland	Piston/Scroll	R-134a/R-404a	4225-32
Dorin	Screw	R-134a/R-404a	4225-32
Grasso	Piston	R-22	4004-46
	Piston	R-717 (Ammonia)	2033
	Screw	R-134a/R-404a	4225-68
HKT (Goeldner)	Semi hermetic	R-717 (Ammonia)	2033
Mycom	Screw	R-717 (Ammonia)	2033
McQuay	Centrifugal	R-134a/R-404a	4225-32
	Screw (Commercial)	R-134a/R-404a	4225-68
Sabroe	Piston	R-134a/R-404a	4225-68
Trane	Screw	R-134a/R-404a	4225-68
	Scroll	R-134a/R-404a	4225-32