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RIVOLTA F.L. 75 / F.L. 100 / F.L. 125 / F.L. 170

Compressor-Oils for the food industry approved as per NSF-H1 guidelines

RIVOLTA F.L. compressor-oils are fully synthetic high performance compressor-oils for the food industry. Our products meet the U.S. demands: guidelines of sec. 21 CFR of FDA regulations.

A combination of high quality synthetic base oils free from mineral oils in combination with an efficient additive package will give a performance spectrum to our products which is superior to conventional compressor-oils as per DIN 51506 VDL. So, the outstanding features of the base oils in view of wear protection, aging stability and corrosion protection are increased by adding highly effective additives.

The property

- **NSF-H1 approval**
- **very good aging- and oxidation resistance**
high thermal resistance
- **little evaporation propensity**
- **minimum deposits**
- **good sealing compatibility**
good miscibility with mineral oils
- **very good demulsifying behaviour**

will give the following benefits

- the strict demands to food hygienics will be kept. An oil leakage must not be followed by production stop. Demands of a quality assurance system will be fulfilled.
- minimum aging of the oils, long term use of the lubricant, reduced maintenance and reduced labour costs
- optimized economy because of little consumption. Insignificant oil-contamination of the compressed air
- minimized formation of mud or coke e.g. at valves, constant efficiency and reduced risk of fire
- will minimize the efforts while changing from mineral oils to synthetic oils
- very good oil/water separation of the oil-contaminated perspiration water, easy sanitation

RIVOLTA F.L. Compressor-Oils
Your contribution to food hygienics



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RIVOLTA F.L. 75 / F.L. 100 / F.L. 125 / F.L. 170 are fully synthetic compressor-oils which exceed the demands of DIN 51506 for compressor-oils, specification VCL/VDL.

Fully synthetic compressor-oils with additives for wear protection, aging stability and corrosion protection.						
Colour: transparent, yellowish			Odour: neutral			
Technical data	Unit of measurement	Norm	F.L. 75	F.L. 100	F.L. 125	F.L. 170
Density	g/ml	DIN 51757	0.83	0.84	0.84	0.84
ISO viscosity grade	-	DIN 51519	46	68	100	150
Viscosity at 20°C	mm ² /s	DIN 51562	110	170	290	530
Viscosity at 40°C	mm ² /s	DIN 51562	46	68	100	150
Viscosity at 100°C	mm ² /s	DIN 51562	8	11	14	15
Viscosity index	-	DIN/ISO 2909	> 140	> 140	> 140	> 140
Flash point	°C	DIN/ISO 2592	> 200	> 200	> 200	> 200
Pourpoint	°C	DIN/ISO 3016	-62	-55	-50	-47
Operative temperature range	°C	-	-60/+120*	-50/+120*	-45/+120*	-45/+120*
Corrosion protection to steel	corr.-grade	DIN 51355	0-A	0-A	0-A	0-A
Corrosion protection to nonferrous metals	corr.-grade	DIN 51759 Part 1	1	1	1	1
Conradson carbon residue	% by weight	DIN 51551	< 0.02	< 0.02	< 0.02	< 0.02
Conradson aging test	% by weight	DIN 51352 Part 2	< 1	< 1	< 1	< 1
Foaming behaviour	ml	DIN 51566	0/0/0	0/0/0	0/0/0	0/0/0
Demulsifying behaviour, 54 °C/30min.	-	DIN/ISO 6614	40/38/2	40/38/2	40/37/3	40/37/3
Evaporation loss 1h, 250 °C	% by weight	DIN 51581	< 10	< 10	< 10	< 10
FZG-test 8.3/90	-	DIN 51354 Part 2	> 12	> 12	> 12	> 12
Behaviour against sealing material SRE-NBR 1		DIN 53538 Part 3				
• relative change in volume	Vol. %		+2	+2	+2	+2
• change of hardness (shore A)			-1	-1	-1	-1
S.R.V.-Test**		DIN 51834				
• friction coefficient	µ min.	-	0.10	0.10	0.10	0.10
	µ max	-	0.11	0.11	0.11	0.11
• wear rate	ball	mm	0.53	0.52	0.50	0.45
	disc	µm	< 1.50	< 1.50	< 1.50	< 1.50

* Permanent temperature, short termed usable up to 150 °C

** Swing friction wear tester, T=50 °C, F=200N, 1,000,000 load changes (5.5 hours)

Applications

- **compressors:** screw-type compressor with oil spray cooling, oil-flooded sliding vane compressor, sliding vane compressor with loss lubrication, reciprocating pump, vacuum pump etc.

For lubrication of pressurized rooms, stationary housing applications, shaft seals

Compatibility

- A consistency is given with mineral oil resistant sealings.
- The products are mixable with mineral oils and ester oils but not with polyalkylen glycols.

Preparation of lubrication point

The following steps have to be carried out before new filling with F.L. compressor-oils

- Leave off the old product. If the system was filled with a mixable product, a special flushing is not necessary. However, for the purposes of purity of grades we recommend a flushing with the F.L. compressor-oil which shall be used.
- If the system was filled with a product which is not mixable a flushing must be included.

This text contains facts and statements and is determined with our best knowledge and will be checked continuously. These statements are depending - among other reasons - on experiences gained in the industry. We only pass them on without liability. Before using our products you should test the applicability and you should convince yourself about the satisfactory performance. Our application examples and suggestions should not request to violate patent rights.