



SHANGHAI PING YIAO TRADING CO.,LTD.

Tel: 86-21-64705533

Fax: 86-21-64820538

24H: 86-15900706965

Website: www.pingyiao.com

E-mail: info@pingyiao.com

## **RIVOLTA F.L. 50 / F.L. 125 / F.L. 1000**

### **Chain-Oils for the food industry approved as per NSF-H1 guidelines**

RIVOLTA F.L. chain-oils are fully synthetic high performance chain-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, free from mineral oils, synthetic base oils in combination with an efficient additive package will give a performance spectrum to our products which is superior to conventional oils. 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.

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#### **The property**

- **NSF-H1 approval**
- **minimum wear and friction**
- **good aging- and oxidation-resistance**
- **good creep- and adhesive properties**
- **favourable in processing**

#### **will give the following benefits**

- the strict demand 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.
- extend lifetime of machines and facilities. Reduce energy consumption and allow silent operation.
- long term use of the lubricant, reduced maintenance and reduced labour costs
- penetrate tight tolerances, guarantee a secure inside bearing lubricant film. Extreme adhesive long-term lubricant, no or very little pollution of the environment
- F.L. 50 and F.L. 125 can be processed easily in a centralized lubricating system. F.L. 1000 is available in spray cans.

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**RIVOLTA F.L. Chain-Oils**  
**Your contribution to food hygienics**



## RIVOLTA F.L. 50 / F.L. 125 / F.L. 1000

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

RIVOLTA F.L. 50 / F.L. 125 / F.L. 1000 are fully synthetic chain-oils which were developed to lubricate highly stressed chains.

Fully synthetic chain-lubricants with additives for wear protection, aging stability and corrosion protection.					
Colour: transparent, yellowish			Odour: neutral		
Technical data	Unit of measurement	Norm	F.L. 50	F.L. 125	F.L. 1000
Density	g/ml	DIN 51757	0.82	0.84	0.86
ISO viscosity grade	-	DIN 51519	32	100	1500
Viscosity at 20°C	mm <sup>2</sup> /s	DIN 51562	80	290	4400
Viscosity at 40°C	mm <sup>2</sup> /s	DIN 51562	32	100	1500
Viscosity at 100°C	mm <sup>2</sup> /s	DIN 51562	6	14	135
Viscosity index	-	DIN/ISO 2909	> 140	> 140	> 200
Flash point	°C	DIN/ISO 2592	> 200	> 200	> 200
Pourpoint	°C	DIN/ISO 3016	-62	-50	-15
Operative temperature range	°C	-	-60/+120*	-45/+120*	-12/+120*
Corrosion protection to steel	corr.-grade	DIN 51355	0-A	0-A	0-A
Evaporation loss 1h/250 °C	% by weight	DIN 51581	< 10	< 10	< 10
S.R.V.-Test**		DIN 51834			
• friction coefficient	μ min.	-	0.10	0.10	0.11
	μ max	-	0.11	0.11	0.12
• wear rate	ball	mm	0.55	0.50	0.46
	disc	μm	< 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

- **Chains:**  
for inside bearing lubrication of highly loaded chains and for complete lubrication in dusty surroundings (F.L. 50; F.L. 125),  
for outside lubrication of chains in humid surroundings or at high speeds (F.L. 1000) etc.  
for lubrication of moistening chains, chain conveyors, timing chains, driving chains at conveyors (e.g. bottle/bottle case conveyors and routing installations; slaughter house conveyors), bakery conveyors etc.
- **levers, joints, shafts**
- **guidings, slideways**
- **rope lubrication**
- **spindles, deflection rollers**

### Compatibility

Our F.L. chain-lubricants do not affect common metals, plastics, lacquers and mineral oil resistant sealings. The products are mixable and consistent with mineral oils.

### Preparation of lubrication point

Remove pollutions and old residues as far as possible. The lubrication point should be dry to reach the full adherency of the products.

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 patentrights.