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Synthetic high performance adhesive lubricant

RIVOLTA S.K.D. 170 is a high performance adhesive lubricant of the fourth generation. The combination of high quality synthetic base oils with a brand-new additive technology will give a performance spectrum to our S.K.D.-lubricants which is superior to conventional oils.

Especially in the area of mixed friction S.K.D.-lubricants reduce the consumption of energy, raise the operating safety and extend the life-time of machines and facilities.

The property

- **minimal wear and friction**
- **aging- and oxidation-resistance**
- **operative temperature range from -35°C up to +250°C**
high viscosity index
- **good creep and adhesive properties**
- **no classification necessary according to the German hazardous substances ordinance**
- **biodegradable**

will give the following benefits

- raised economy by reduced consumption of energy, extended life-time of machines and facilities
- long-term use of the lubricant, extended service intervals, reduced maintenance, reduced labour costs
- qualified for use in a wide temperature range, optimal at low and very high temperatures as well as changing operative temperatures with constant good lubrication properties
- penetrates tight small tolerances, guarantees a secure lubrication of inside bearings, very adhesive long-time lubricant film, no or very little pollution of the environment
- S.K.D. 170 stands for a maximum of personal protection. The appropriate use of S.K.D. 170 does not create any risks for the workers' health. S.K.D. 170 can also be used in the food industry according to German regulations.
- S.K.D. 170 is environmentally safe and has the advantage of biodegradability and non-toxicity. This is especially important in those cases where the lubricant can get into the environment

RIVOLTA S.K.D.-lubricants
progressive in technology and safe for health and environment



Synthetic high performance adhesive lubricant

high temperature stable, synthetic oils (ester), biodegradable with anti-wear, anti-ageing and anti-corrosion additives Colour: transparent, rufous			
Technical data	Unit of measurement	Norm	S.K.D. 170
Density	g/ml	DIN 51757	0.940
Viscosity at 20°C	mm ² /s	DIN 51562	1500
Viscosity at 40°C	mm ² /s	DIN 51562	430
Viscosity at 100°C	mm ² /s	DIN 51562	46
Viscosity index	-	DIN ISO 2909	>150
Flash point	°C	DIN EN ISO 2592	210
Pour point	°C	DIN ISO 3016	-36
Operative temperature range	°C	-	-35/+250
Evaporation loss 1h/250°C	% by weight	DIN 51581	8.5
S.R.V.-Test*		DIN 51834	
Friction coefficient μ_{min}	-		0.045
μ_{max}	-		0.060
Wear rate ball	mm		0.50
disc	μm		<2.00

*Swing friction wear tester, T = 150°C, F = 200 N, 1,000,000 load changes (5.5 hours)

Compatibility:

RIVOLTA S.K.D. 170 is not aggressive to common metals and paints. It is compatible with seals resistant to mineral oil. The product is mixable and compatible with mineral oil.

Preparing of the lubrication point:

Remove contaminations and residues as far as possible. If necessary use RIVOLTA S.K.D. 16 for cleaning. The friction points should be dry to get the full adhesive property of our product.

Applications

chain lubricant: fork-lift trucks, lift and transport chains, chains at machine tools, production plants and other machines for example for the food industry

guide rails: at machine tools, diecasting machines, transport-, production- and filling machines

spindle, deflection pulleys: at machine tools, transport facilities

rope lubricant: for all kind of ropes which are used indoor and outdoor

Processing

automatic lubricating systems: RIVOLTA S.K.D. 170 was developed for processing in automatic lubrication systems like drip feed lubricators, wick oilers, brush oilers, spray oil systems and mist oil systems - you can get more information about the use by contacting our department of technical support

spray can: place the spray can or the oil can directly to the friction points

brush: oil the friction surfaces thin with a clean brush, take care that no soil will be dragged in

plunging: items shall be dipped in oil baths and subsequently dropped off, if necessary carry to a temperature of to 50°C up to 70°C (ideal for chains and ropes)

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.