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## High performance universal cutting-oil, free of chlorine

RIVOLTA S.K.S. 40 is a synthetic high performance cutting oil for metal- cutting processes.

A combination of a high temperature stable synthetic base oil which shows a low evaporation capacity, together with a brand new additive technology give a range of performance to our product, that is superior compared to conventional cutting oils.

Our product can be used for universal cutting processes of ferro-and non-ferro-metals. Special additives which treat the metals with care allows to machine non ferrous as well as high temperature stable nickel chromium steel.

Our base oil is intense temperature stable and by this allows a cutting process with a low evaporation and nebulosity.

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Property	Your useful effect
<ul style="list-style-type: none"><li>• <b>minimal wear and friction</b></li></ul>	<ul style="list-style-type: none"><li>• Reduction of friction between tool and work piece. Increase of tool life. Saving of energy because of reduced drawing of current clean cut edges.</li></ul>
<ul style="list-style-type: none"><li>• <b>extrem low evaporation capacity</b></li></ul>	<ul style="list-style-type: none"><li>• Annoyance by oil mist or oil gas will be avoided as good as possible. The favourable evaporation conditions allow highest possible safety and hygiene at the place of work.</li></ul>
<ul style="list-style-type: none"><li>• <b>treat material with care: chlorine free free from free sulphur</b></li></ul>	<ul style="list-style-type: none"><li>• Corrosive constituents will not be formed during the machining process. No influence on the work piece surface.</li></ul>
<ul style="list-style-type: none"><li>• <b>universal in use:</b></li></ul>	<ul style="list-style-type: none"><li>• For drilling, tapping, sawing, cutting etc., e.g. ferrous: hardened steel, nickel chromium steel, gray cast iron etc. non ferrous: aluminum, copper, titanium etc.</li></ul>
<ul style="list-style-type: none"><li>• <b>free from mineral oil free from solvents</b></li></ul>	<ul style="list-style-type: none"><li>• Low production of residues, no carbonization. Costly cleaning processes are not necessary.</li></ul>
<ul style="list-style-type: none"><li>• <b>no classification necessary according to the German hazardous substances ordinance</b></li></ul>	<ul style="list-style-type: none"><li>• S.K.S. 40 stands for a maximum of personal protection. The appropriate use of S.K.S. 40 does not create any risks for the workers' health. S.K.S. 40 can also be used in the food industry according to German regulations</li></ul>

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**Rivolta S.K.S. 40 is a progressive cutting oil for great demands**



**High performance universal cutting-oil,  
free of chlorine**

high performance, synthetic cutting-oil with special additives to increase the cutting efficiency			
Colour: primrose yellow		Odour: mild	
Technical data	Unit of measurement	Norm	S.K.S. 40
Density	g/ml	DIN 51757	0,84
Viscosity at 20°C	mm <sup>2</sup> /s	DIN 51562	60
Viscosity at 40°C	mm <sup>2</sup> /s	DIN 51562	30
Flash point	°C	DIN EN ISO 2592	230
Corrosion effect to Copper	-	DIN EN ISO 2160	1-100 A3
Pourpoint	°C	DIN ISO 3016	-50
Evaporation loss 6h/200°C	% by weight	DIN 51581	2,5
Conradson carbon residue	% by weight	DIN 51551	< 0,1

**Applications:**

As cooling- and cutting -oil for metal-cutting processes

For drilling, tapping, sawing, turning, grinding, broaching of

**ferrous:** e.g. hardened steel and heat treatable steel, free cutting steel, nickel chromium steel, stainless steel, high temperature steel, cast steel, cast iron

**non ferrous:** e.g. aluminum and aluminum alloy, copper and copper alloy, titanium and titanium alloy

**Processing:**

Apply Rivolta S.K.S. 40 to the friction point. Use spray can or spray equipment (e.g. B&L refillable spray can) for bulk ware.

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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.