



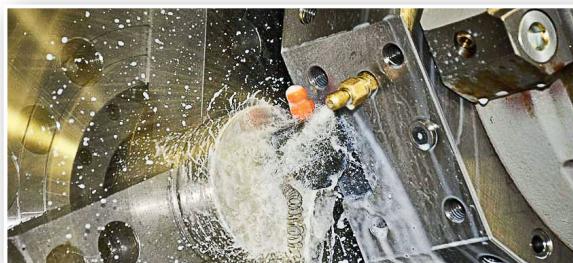
**SPRINGOIL**

m e t a l w o r k i n g f i n d s

The word "SPRINGOIL" is written vertically in large, bold, dark gray letters. To the right of the "I" in "SPRINGOIL", the words "m e t a l w o r k i n g f i n d s" are written in a smaller, gray, sans-serif font.



S P R I N G O I L  
designs and manufactures the  
**metalworking fluid**  
for your  
**cutting operations**  
and the metals you machine



m e t a l c h i p r e m o v a l

e m u l s i o n s   s o l u b l e   o i l s  
m e t a l w o r k i n g  
m e t a l c h i p r e m o v a l

	metalworking performance						chemical features					
	very difficult machining	difficult machining	grinding	alloyed, stainless steels machining	cast iron machining	aluminum machining	yellow metals machining	boron-free	secondary amine free	formaldehyde-free	chlorine-free	mineral-oil free
macro-emulsions	● ●	● ●	● ●	● ●	● ●	● ●	● ●	● ●	● ●	● ●	● ●	● ●
macro-emulsions	● ●	● ●	● ●	● ●	● ●	● ●	● ●	● ●	● ●	● ●	● ●	● ●
micro-emulsions	● ●	● ●	● ●	● ●	● ●	● ●	● ●	● ●	● ●	● ●	● ●	● ●
micro-emulsions	● ●	● ●	● ●	● ●	● ●	● ●	● ●	● ●	● ●	● ●	● ●	● ●
soluble oils	● ●	● ●	● ●	● ●	● ●	● ●	● ●	● ●	● ●	● ●	● ●	● ●
soluble oils	● ●	● ●	● ●	● ●	● ●	● ●	● ●	● ●	● ●	● ●	● ●	● ●

● Recommended

● Suitable

● Compatible

● Features

● Not recommended

Springoil reserves to change features without notice.



**S P R I N G O I L**  
designs and manufactures  
performance  
compatible with  
health and  
environment



metal chip removal

neat cutting fluids  
metalworking  
metal chip removal

	Product-line	Viscosity	chemical features			metalworking performance							yellow metals machining
			chlorine-free	mineral-oil free	sulphur-free	very difficult machining	difficult machining	alloyed, stainless steels machining	deep drilling	broaching	gear manufacturing	grinding	
CUTTING EP PLUS	10 - 15 - 22 - 32	●				●	●	●	●	●	●		●
CUTTING EP ACTIVE	10 - 15 - 22 - 32 - 68	●				●	●	●	●	●	●		●
CUTTING EP	10 - 15 - 22 - 32	●				●	●	●	●	●	●		●
CUTTING RD CSF	5 - 10 - 15 - 22 - 32	●		●		●	●	●	●	●	●		●
CUTTING TRP	22 - 32	●				●	●	●	●	●	●		●
BARCUT PLUS	10 - 15 - 22 - 32	●		●		●	●	●	●	●	●		●
SAFETY CUT B	5 - 10 - 15 - 22 - 32	●	●			●	●	●	●	●	●		●
SAFETY CUT CSF	5 - 10 - 15 - 22 - 32	●	●	●		●	●	●	●	●	●		●
FRESAN EP PLUS	10 - 15 - 22 - 32					●	●	●	●	●	●		●
FRESAN EP PLUS ACTIVE	10 - 15 - 22 - 32 - 68					●	●	●	●	●	●		●
FRESAN EP	10 - 15 - 22 - 32					●	●	●	●	●	●		●
FRESAN 8 EP/11	15					●	●	●	●	●	●		
ELETTROFLUID 18	3,5 cSt @ 20°C	●		●								●	
ELETTROFLUID 10	1,7 cSt @ 20°C	●		●								●	

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**S P R I N G O I L**  
designes and manufactures  
innovative  
specialties  
for cold-drawing  
operations



## Cold-drawing

c o l d - d r a w i n g  
p u n c h i n g  
f e r r o u s   a n d  
n o n - f e r r o u s   m e t a l s

Product-line	Viscosity
	cSt @ 40°C

neat oils	DRAWING HTL	20 - 40 - 90 - 150 - 300
	DRAWING HTL-CF	20 - 40 - 90 - 150 - 300
	DRAWING HB	20 - 40 - 90 - 150 - 300
	DRAWING HB-CF	20 - 40 - 90 - 150 - 300
	DRAWING DX	20 - 40 - 90 - 150 - 300

evaporating	FORMING HTL 40	15 @ 40°C
	FORMING HB 40	15 @ 40°C
	METAL SLH 151J PLUS	2 @ 20°C
	METAL SLH 151J	2 @ 20°C
	METAL SLE 40J	2 @ 20°C

emulsions	EMULDRAW 033 HD	
	EMULDRAWLS2 PLUS	
	EMULDRAW LS2 W	
	EMULDRAW 9V	
	EMULDRAW 133V	

metalworking performance								chemical features				
	heavy duty deep drawing	heavy duty drawing	stamping of screw and bolts	fine blanking	multi-step deep drawing	machining	shear spinning machining	lubrication of guides-slides-gears of horizontal presses	rolling threads	ferrous and non-ferrous drawing	suitable for yellow alloys	
neat oils	● ● ● ● ● ● ● ●	● ● ● ● ● ● ● ●	● ● ● ● ● ● ● ●	● ● ● ● ● ● ● ●	● ● ● ● ● ● ● ●	● ● ● ● ● ● ● ●	● ● ● ● ● ● ● ●	● ● ● ● ● ● ● ●	● ● ● ● ● ● ● ●	● ● ● ● ● ● ● ●	● ● ● ● ● ● ● ●	chlorine-free
evaporating	● ● ● ● ● ● ● ●	● ● ● ● ● ● ● ●	● ● ● ● ● ● ● ●	● ● ● ● ● ● ● ●	● ● ● ● ● ● ● ●	● ● ● ● ● ● ● ●	● ● ● ● ● ● ● ●	● ● ● ● ● ● ● ●	● ● ● ● ● ● ● ●	● ● ● ● ● ● ● ●	● ● ● ● ● ● ● ●	mineral-oil free
emulsions	● ● ● ● ● ● ● ●	● ● ● ● ● ● ● ●	● ● ● ● ● ● ● ●	● ● ● ● ● ● ● ●	● ● ● ● ● ● ● ●	● ● ● ● ● ● ● ●	● ● ● ● ● ● ● ●	● ● ● ● ● ● ● ●	● ● ● ● ● ● ● ●	● ● ● ● ● ● ● ●	● ● ● ● ● ● ● ●	secondary amine free
												boron-free
												formaldehyde-free
												aromatic-solvent-free

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## protective fluids



rust preventive  
protective fluids  
ferrous non-ferrous metals

oily film	METALCOVER OIL 6	mineral oil based	performance						chemical features
			rust preventive action	highly flexible polar protective film	easy penetrable protective fluid	standard monthly term of protection indoor	process-lube compatibility	protection of components under load	
	METALCOVER OIL 15	mineral oil based	●	●	●	6-12	●		●
	METALCOVER OIL F/80	solvent based	●	●	12-24	●	●		●
	METALCOVER SL/DW 81	solvent based	●	●	6-18	●		●	●
	METALCOVER SL/DW 307	solvent based	●	●	6-18	●		●	●
	METALCOVER SL/DW	solvent based		●	3-6	●	●	●	●

## surface degreasing fluids

surface degreasing fluids  
ferrous non-ferrous metals

solvent based fluids	FLUID SHT	mineral oil based	performance						chemical features
			strong degreasing performance	oil-wax-grease-bitumen residues removal	only for cold degreasing	suitable for industrial washing machine of metal pieces	hot-washing - maximum temperature 70°C	multi-metal	
	METALCLEAN FP 100	mineral oil based	●	●	●		●	●	65
	METALCLEAN FP 50	mineral oil based	●	●	●	●	●	●	95
									70

● Recommended

● Suitable

● Compatible

● Features

● Not recommended

## treatment fluids for emulsions

treatment fluids for emulsions	ANTIFOAM SPECIAL	Anti-foaming recommended for foam formed during use of emulsions
	TANK CLEANER 90	Pre-emulsion change cleaning fluid
	PHR 51	Additive to manage the bacterial-growth- pH range 7-11



p e n s i e r o  
a z i o n e



organized know-how to reach the goal



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