Product	Steel up to approx. [mm]	NF metal up to approx. [mm]	Aluminium up to approx. [mm]	Alloy steel up to approx. [mm]	Performance
CLF 11 L	0,15	0,30	0,30	_	●
CLF 11	0,15	0,30	0,30	_	● ●
CLF 11 W 10	0,20	0,40	0,40	0,10	● ●
CLF 11 SE	0,20	0,30	0,40	0,15	● ● ●
CLF 11 S	0,30	0,50	0,50	0,20	● ● ● ●
CLF 11 SF	0,50	0,80	0,80	0,30	● ● ● ●
CLF 11 W 25	0,60	1,00	1,00	0,40	● ● ● ● ●
CLF 11 SB	0,80	1,50	1,50	0,50	● ● ● ● ●
CLF 11 SD	1,50	2,00	2,00	0,90	● ● ● ● ● ●
CLF 11 SG	3,50	5,00	3,50	2,00	● ● ● ● ● ● ●
CLF 11 TE	3,50	5,00	3,50	2,00	● ● ● ● ● ● ●

Residue behaviour

Low < <

> > High

CLF 11 L
CLF 11
CLF 11 W 10
CLF 11 W 25
CLF 11 SE
CLF 11 S
CLF 11 SB
CLF 11 SD
CLF 11 SF
CLF 11 SG
CLF 11 TE

The above mentioned information on the area of application are based on lab tests and practical experiences. These instructions do not release the user from checking the suitability of the lubricant and its application and follow-up processes.
We reserve the rights to make changes due to new laws, regulations, perceptions, etc.

Product	Steel up to approx. [mm]	NF metal up to approx. [mm]	Aluminium up to approx. [mm]	Alloy steel up to approx. [mm]	Performance
CLF 12 L	0,20	0,35	0,35	_	●
CLF 12	0,20	0,35	0,35	_	● ●
CLF 12 W 10	0,25	0,45	0,45	0,15	● ●
CLF 12 S	0,35	0,60	0,55	0,25	● ● ●
CLF 12 SFL/132	0,45	0,70	0,65	0,25	● ● ● ●
CLF 12 SF	0,60	0,90	0,90	0,35	● ● ● ●
CLF 12 W 25	0,70	1,10	1,10	0,50	● ● ● ● ●
CLF 12 SB	0,90	1,75	1,75	0,60	● ● ● ● ●
CLF 12 SD	1,50	2,00	2,00	0,90	● ● ● ● ● ●
CLF 12 SG	4,00	6,00	4,00	2,50	● ● ● ● ● ● ●

Residue behaviour

Low < <

> > High

CLF 12 L
CLF 12
CLF 12 W 10
CLF 12 W 25
CLF 12 S
CLF 12 SB
CLF 12 SF/132
CLF 12 SD
CLF 12 SF
CLF 12 SG

The above mentioned information on the area of application are based on lab tests and practical experiences. These instructions do not release the user from checking the suitability of the lubricant and its application and follow-up processes.
We reserve the rights to make changes due to new laws, regulations, perceptions, etc.

Product	Steel up to approx. [mm]	NF metal up to approx. [mm]	Aluminium up to approx. [mm]	Application	Performance
CLF 1 L	0,15	0,30	0,30	Stamping, light forming	●
CLF 1	0,15	0,30	0,30	Stamping, light forming	● ●
CLF 1 W 10	0,25	0,40	0,40	Profiling, drawing, bending	● ● ●
CLF 1 W 25	0,35	0,50	0,50	Profiling, drawing, bending	● ● ● ●

Performance overview

Low < <

> > High

CLF 1 L CLF 1 CLF 1 W 10 CLF 1 W 25

The above mentioned information on the area of application are based on lab tests and practical experiences. These instructions do not release the user from checking the suitability of the lubricant and its application and follow-up processes.
We reserve the rights to make changes due to new laws, regulations, perceptions, etc.

Product	Steel up to approx. [mm]	NF metal up to approx. [mm]	Aluminium up to approx. [mm]	Alloy steel up to approx. [mm]
CLF 25	0,15	0,30	0,30	_
CLF 25 SE	0,25	0,40	0,40	0,15
CLF 25 S	0,30	0,50	0,50	0,20
CLF 25 E	0,60	0,80	0,80	0,30
CLF 25 OP	3,50	5,00	5,00	2,00

(special lubricants for electrical contact production)

Residue behaviour

Low < <

> > High

CLF 25 CLF 25 SE CLF 25 S CLF 25 E

CLF 25 OP

The above mentioned information on the area of application are based on lab tests and practical experiences. These instructions do not release the user from checking the suitability of the lubricant and its application and follow-up processes.
We reserve the rights to make changes due to new laws, regulations, perceptions, etc.

Product	Use	Application
Fluid 4610	Stamping, bending (thin sheet)	Including steel, galvanised steel, aluminium
Fluid 4620	Stamping, bending (thin sheet)	Including steel, galvanised steel, aluminium
Fluid 4630	Stamping, bending (thin sheet)	Including steel, galvanised steel, aluminium
Fluid 3246 PWF	Stamping, bending, drawing, cutting	Including steel, stainless steel, galvanised steel, aluminium
Fluid 3350 PWF	Stamping, bending, drawing, cutting	Including steel, stainless steel, galvanised steel, aluminium
Fluid 3934 PFCHD	Paste for pipe processing	Including steel, stainless steel, galvanised steel, aluminium
Fluid 4039 THD	Stamping, bending (thin sheet)	Including steel, galvanised steel, aluminium

Performance overview

Low < <

> > High

Fluid 4620

Fluid 3246 PWF
Fluid 3242 PWF

Fluid 3350 PWF
Fluid 3432 PFW

Fluid 3630 PWHV
Fluid 3934 PFCHD
Fluid 4039 THD

The above mentioned information on the area of application are based on lab tests and practical experiences. These instructions do not release the user from checking the suitability of the lubricant and its application and follow-up processes.
We reserve the rights to make changes due to new laws, regulations, perceptions, etc.

Series	Raziol Drylub types	Characteristics	Film strength	Utilisation as
Series 03	Raziol Drylub WA 03 T	polymer wash dispersion with solid lubricant	High	Forming lubricant
Series 40	Raziol Drylub WA 40 TK	polymer wash dispersion with solid lubricant	Medium	Forming lubricant
Series 21	Raziol Drylub D CLF 21 TE	polymer wash dispersion with solid lubricant	Low	Forming lubricant for high performance requirements
Series 21	Raziol Drylub ECLF 21 TE	polymer wash dispersion with solid lubricant	Extremely low	Dispersion / emulsion for minimum to moderate performance requirements

Film strength

High < <

> > Low

Drylub WA 03 T

Drylub WA 40 TK

Drylub DCLF 21 TE

Drylub ECLF 21 TE

The above mentioned information on the area of application are based on lab tests and practical experiences. These instructions do not release the user from checking the suitability of the lubricant and its application and follow-up processes.
We reserve the rights to make changes due to new laws, regulations, perceptions, etc.

Product	Colour	Viscosity at 40 °C [mm²/s]	Application	Performanc
CLF 90	Amber	90	Stainless steel, Steel, Aluminium, NF metaltal	● ● ●
CLF 100	Amber	100	Stainless steel, Steel, Aluminium, NF metaltal	● ● ● ●
KTL N 16	Amber	160	Steel, Aluminium, NF metal	● ● ●
CLF 180	Amber	180	Stainless steel, Steel, Aluminium, NF metaltal	● ● ● ● ●
CLF 180 S	Amber	180	Stainless steel, Steel, Aluminium,	● ● ● ● ●
CLF W 100	Amber, opaque	100	Steel, Aluminium, NF metal	● ●
CLF W 430	Amber, opaque	430	Steel, Aluminium, NF metal	● ● ●
CLF 100 V	Amber	100	Steel, Aluminium, NF metal	● ● ● ●

Performance overview

Low < <

> > High

CLF W 100

CLF 90
CLF W 430

CLF 100

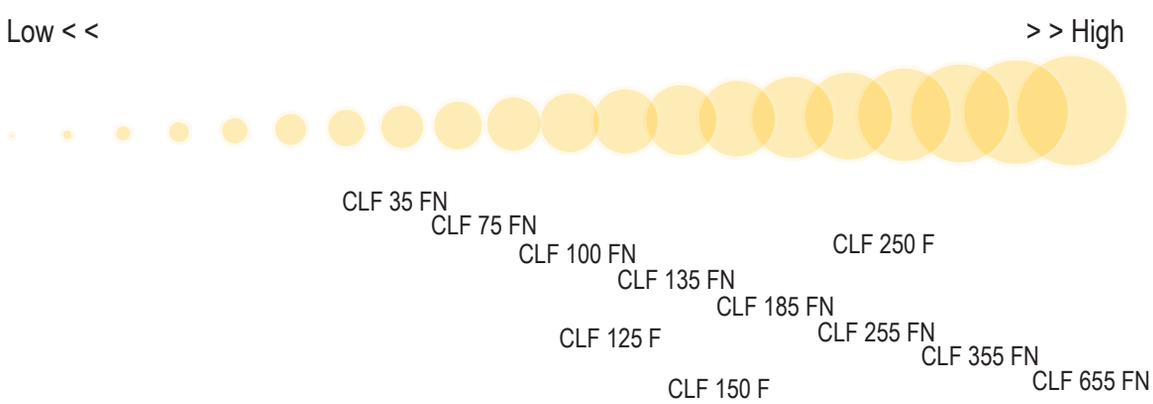
KTL N 16

CLF 180
CLF 180 S

The above mentioned information on the area of application are based on lab tests and practical experiences. These instructions do not release the user from checking the suitability of the lubricant and its application and follow-up processes.
We reserve the rights to make changes due to new laws, regulations, perceptions, etc.

Product	Colour	Viscosity at 40 °C [mm²/s]	Application
CLF 35 FN	Greenish	35	Stainless steel, steel, aluminium
CLF 75 FN	Greenish	75	Stainless steel, steel, aluminium
CLF 100 FN	Greenish	100	Stainless steel, steel, aluminium
CLF 135 FN	Greenish	135	Stainless steel, steel, aluminium
CLF 185 FN	Greenish	185	Stainless steel, steel, aluminium
CLF 255 FN	Greenish	255	Stainless steel, steel, aluminium
CLF 355 FN	Greenish	355	Stainless steel, steel, aluminium
CLF 655 FN	Greenish	655	Stainless steel, steel, aluminium
CLF 125 F	Amber	125	Stainless steel, steel, aluminium
CLF 150 F	Amber	150	Stainless steel, steel, aluminium
CLF 250 F	Amber	255	Stainless steel, steel, aluminium

Performance overview



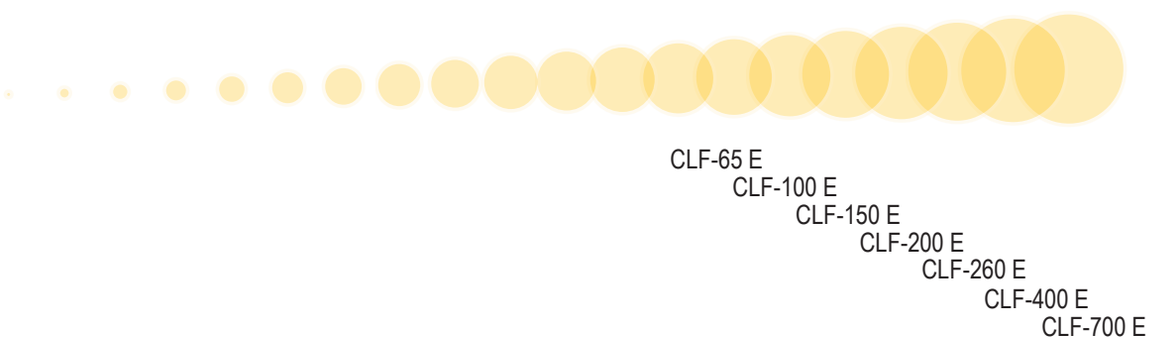
The above mentioned information on the area of application are based on lab tests and practical experiences. These instructions do not release the user from checking the suitability of the lubricant and its application and follow-up processes.
We reserve the rights to make changes due to new laws, regulations, perceptions, etc.

Product	Colour	Viscosity at 40 °C [mm²/s]	Application
CLF-65 E	Amber	65	Stainless steel, steel, aluminium
CLF-100 E	Amber	100	Stainless steel, steel, aluminium
CLF-150 E	Amber	150	Stainless steel, steel, aluminium
CLF-200 E	Amber	200	Stainless steel, steel, aluminium
CLF-260 E	Amber	260	Stainless steel, steel, aluminium
CLF-400 E	Amber	400	Stainless steel, steel, aluminium
CLF-700 E	Amber	690	Stainless steel, steel, aluminium

Performance overview

Low < <

> > High



The above mentioned information on the area of application are based on lab tests and practical experiences. These instructions do not release the user from checking the suitability of the lubricant and its application and follow-up processes.
We reserve the rights to make changes due to new laws, regulations, perceptions, etc.

Product	Colour	Viscosity at 40 °C [mm²/s]	Application	Performance
CLF 19 B	Amber	≥ 21	Stainless steel, steel, NF metals	● ● ● ●
CLF 18 HL	Amber	≥ 21	Stainless steel, steel	● ● ● ● ●

The above mentioned information on the area of application are based on lab tests and practical experiences. These instructions do not release the user from checking the suitability of the lubricant and its application and follow-up processes.
We reserve the rights to make changes due to new laws, regulations, perceptions, etc.

Product	Colour	Viscosity at 40 °C [mm²/s]	Application
BZK II	Amber	ca. 50	Galvanised sheet metal; excellent protection against white rust; deep drawing and profile rolling; Mix ratio with water: 10 to 30 %
BZK ST	Amber	ca. 46	Steel; excellent corrosion protection; deep drawing and profile rolling; mix ratio with water: 5 to 30 %
ECLF 100 N	Amber	70	Steel, aluminium, rustproof sheet metal; large-scale deep drawing parts; stamping and bending operations; Mix ratio with water: 5 to 20 %
D ECLF	Yellow	100	Steel, non-ferrous metals, aluminium; ester-based synthetic special lubricant; also suitable for chipping; Mix ratio with water: 5 to 10 %

Product	Colour	Viscosity at 40 °C [mm²/s]	Application	Performance
D CLF	Yellow	47	Steel, aluminium, NF metals	● ●
D CLF 21	Light yellow	25	Steel, aluminium, NF metals	● ● ●
D CLF 30	Amber	30	Stainless steel, steel, aluminium	● ● ● ●
D CLF 40	Amber	40	Stainless steel, steel, aluminium	● ● ● ● ●

Performance overview

Low < <

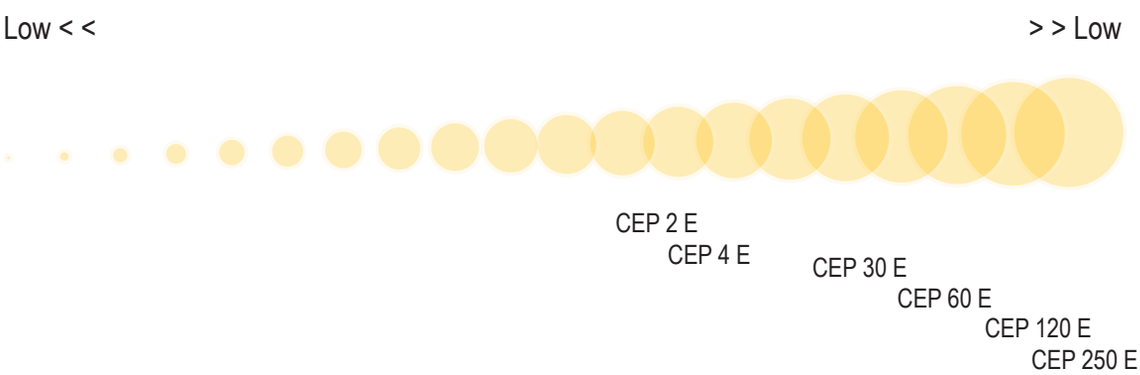
> > High

D CLF D CLF 21 D CLF 30 D CLF 40

The above mentioned information on the area of application are based on lab tests and practical experiences. These instructions do not release the user from checking the suitability of the lubricant and its application and follow-up processes.
We reserve the rights to make changes due to new laws, regulations, perceptions, etc.

Product	Colour	Viscosity at 40 °C [mm²/s]	Application
CEP 2 E	Amber	2	Stainless steel, steel, aluminium
CEP 4 E	Amber	4	Stainless steel, steel, aluminium
CEP 30 E	Amber	30	Stainless steel, steel, aluminium
CEP 60 E	Amber	60	Stainless steel, steel, aluminium
CEP 120 E	Amber	120	Stainless steel, steel, aluminium
CEP 250 E	Amber	250	Stainless steel, steel, aluminium

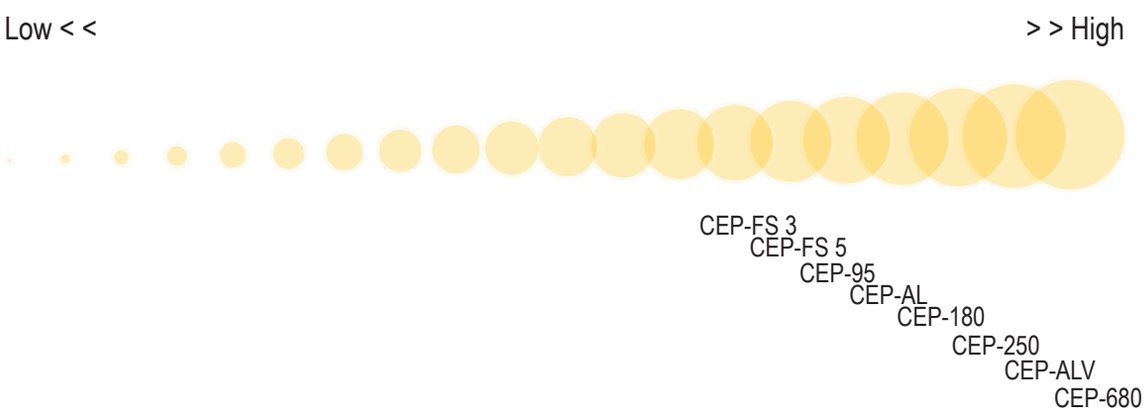
Performance overview



The above mentioned information on the area of application are based on lab tests and practical experiences. These instructions do not release the user from checking the suitability of the lubricant and its application and follow-up processes.
We reserve the rights to make changes due to new laws, regulations, perceptions, etc.

Product	Colour	Viscosity at 40 °C [mm²/s]	Application
CEP-FS 3	Reddish brown	38	Stainless steel, steel, aluminium
CEP-FS 5	Reddish brown	69	Stainless steel, steel, aluminium
CEP-95	Reddish brown	105	Stainless steel, steel, aluminium
CEP-AL	Reddish brown	130	Stainless steel, steel, aluminium
CEP-180	Reddish brown	180	Stainless steel, steel, aluminium
CEP 250 E	Reddish brown	250	Stainless steel, steel, aluminium
CEP-ALV	Reddish brown	360	Stainless steel, steel, aluminium
CEP-680	Reddish brown	680	Stainless steel, steel, aluminium

Performance overview



The above mentioned information on the area of application are based on lab tests and practical experiences. These instructions do not release the user from checking the suitability of the lubricant and its application and follow-up processes.
We reserve the rights to make changes due to new laws, regulations, perceptions, etc.

Product	Colour	Viscosity at 40 °C [mm²/s]	Application
IHU 340 Mg	Yellow	340	Base synthetic ester; This product was specially developed for the machining of magnesium components; More temperature-stable than conventional mineral oil-based IHU lubricants
IHU 1000 Mg	Yellow	1000	Base synthetic ester; This product was specially developed for the machining of magnesium components; More temperature-stable than conventional mineral oil-based IHU lubricants

The above mentioned information on the area of application are based on lab tests and practical experiences. These instructions do not release the user from checking the suitability of the lubricant and its application and follow-up processes.
We reserve the rights to make changes due to new laws, regulations, perceptions, etc.

Product	Colour	Viscosity at 40 °C [mm²/s]	Application	Performance
FS 3	Red	ca. 40	Stainless steel, Steel, Aluminium, NF metals Stamping, Fineblanking, Forming	● ● ●
FS 3 S	Yellow	ca. 40	Stainless steel, Steel, Aluminium, NF metals Stamping and Fineblanking (including electrical contacts), Forming	● ● ●
FS 5	Red	63	Stainless steel, Steel, Aluminium, NF metals Stamping, Fineblanking, Forming	● ● ●
AL	Brown	130	Stainless steel, Steel, Aluminium, NF metals Stamping, Fineblanking, Forming	● ● ● ●
ZO	Brown	125	Stainless steel, Steel, Aluminium, NF metals Stamping, Fineblanking, Forming	● ● ● ●
ALV	Brown	300	Stainless steel, Steel, Aluminium, NF metals Stamping, Fineblanking, Forming	● ● ● ● ●
WKZ 2000	Green	125	Stainless steel, Steel, Aluminium, NF metals Stamping, Fineblanking, Forming	● ● ● ●

Performance overview

Low < <

> > High

FS 3
FS 3 S
FS 5

AL
WKZ 2000
ZO

ALV

The above mentioned information on the area of application are based on lab tests and practical experiences. These instructions do not release the user from checking the suitability of the lubricant and its application and follow-up processes.
We reserve the rights to make changes due to new laws, regulations, perceptions, etc.

Product	Colour	Viscosity at 40 °C [mm²/s]	Application	Performance
SZ 11	Yellow	_	Stainless steel, Steel, Aluminium, NF metal, Stamping, Fineblanking, Forming	● ● ● ● ●
SZ 1	Yellow	_	Stainless steel, Steel, Aluminium, NF metal, Stamping, Fineblanking, Forming	● ● ● ● ●

Residue behaviour

Low < <

> > High

SZ 11

SZ 1

The above mentioned information on the area of application are based on lab tests and practical experiences. These instructions do not release the user from checking the suitability of the lubricant and its application and follow-up processes.
We reserve the rights to make changes due to new laws, regulations, perceptions, etc.