

## Cutting oil – active ISO L-MHF

# SG<sup>®</sup> 10 A EKO

SG<sup>®</sup> 10 A EKO is low-viscosity active cutting oil containing refined mineral oil, lubricating additives, high pressure (EP) additives, corrosion inhibitors and anti-wear (AW) additives.

### ADVANTAGES

- The use of advanced additives allows lubrication at high pressures and reduced tool wear,
- Good adhesion to metal surfaces,
- Good chip removal from the cutting zone,
- Good oxidation stability and filtrability extend product life,
- Low tendency of smoke/fog creation
- Good anticorrosion protection properties guarantee interoperational protection,
- It does not contain chlorine, so it can be stored as waste oil.

### QUALITY LEVEL

ISO 6743-7, L-MHF,  
ISO/TS 12927

### APPLICATION

SG<sup>®</sup> 10 A EKO is intended for operations of cutting, turning, drilling, milling, deep drilling, vertical broaching, profile drilling and gear manufacturing. It is recommended for individual machines and central systems.

Type of processing	Grey iron	Low-alloy steels	High-alloy steels	Non-ferrous metals nad alloys	Light metals and alloys
Grinding	***	***	***	-	-
Milling	***	***	***	-	-
Deep drilling	***	***	***	-	-
Vertical broaching	-	**	**	-	-
Cutting	***	***	***	-	-
Turning	***	***	***	-	-
Profile grinding	**	**	**	-	-
Gear manufacturing	***	***	***	-	-

\*\*\* the best, \*\* acceptable, \* satisfactory, - not satisfactory

### ADDITIVE CONTENT

Esters	Sulfur		P	Ca	Zn	Cl
	active	inactive				
+	+	-	+	+	+	-

December, 2016

#### TYPICAL CHARACTERISTICS

CHARACTERISTICS	UNITS	VALUE	METHODS
Appearance	-	Clear oil	Visual
Density at 15°C	g/ml	0,870	EN ISO 3675
Kinematic viscosity at 40°C	mm <sup>2</sup> /s	10	ISO 3104
Flash point	°C	min 150	EN ISO 2592
Copper corrosion (100°C/3h)	degree	4 c	EN ISO 2160
Corrosion on steel	-	no	ISO 7120
EP test (Four ball method) - welding point	N	> 8000	ASTM D 2783
AW test (Four ball method) - wear diameter	mm	0,50	ASTM D 4172

Friction coefficient in the cutting zone:  $\mu = 0,085 - 0,090$

#### STORAGE

Store in covered area. If stored outdoors, it is necessary to place the drums in a horizontal position to prevent the accumulation of water on the surface of the drum. Do not store at elevated temperatures or in locations exposed to direct sunlight, nor at the temperatures below 0°C.

All necessary instructions can be found in the product SDS. It contains the details of possible hazards, warnings and first aid measures, as well as the impact on the environment and the necessary measures for the storage and handling.

#### PACKING

Plastic pails of 20 L, tin drums of 180 kg and plastic container of 850 kg.

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Data are orientational, manufacturer reserves the right to make changes in order to improve product quality.

