

LUKOIL FREO MS 3060A

High quality semi-synthetic universal metalworking fluid

PRODUCT DESCRIPTION

LUKOIL FREO MS 3060A – high quality semi-synthetic chlorine-free metalworking fluid based on synthetic ester.

LUKOIL FREO MS 3060A is designed for mechanical operation of aviation alloys based on aluminium, titanium and nickel. Provides high surface quality of machined parts and protection of tools against wear.

APPLICATION

LUKOIL FREO MS 3060A is designed for use in mechanical metal-working processes (grinding, turning, milling, drilling and sawing).

LUKOIL FREO MS 3060A is intended for processing of the following materials: aluminium and alloys aluminium, titanium and nickel, heat resistant, low-carbon and carbon steels.

The product name in an order:
 Metalworking fluid LUKOIL FREO MS 3060A, STO 79345251-109-2017

BENEFITS

- High resistance to bacterial attack
- Good lubricating properties
- Excellent hygienic properties
- Meets modern environmental standards
- Compatible with elastomers
- Low foaming

Recommended concentration of the emulsion

Operation mode	Concentration of emulsion, %
Grinding	3-5
Lathe work, cutting, sawing	5-8
Milling, screwcutting	8-10

TYPICAL TEST DATA

PROPERTY	Test methods	LUKOIL FREO MS 3060A
Appearance	-	homogeneous oily liquid
Stability at -15°C	GOST 6243, section 5	pass
Storage stability	GOST 6243, section 6	pass
Density at 20°C, kg/m ³	GOST 3900	914
pH 3% emulsion contact pair test in water of total hardness 4.6 mg-eq/decimeter ³ /s	GOST 6243, section 4 and 7.2	9,1
Hard water influence on emulsion in water of total hardness 4.6 mg-eq/decimeter ³ /, sm ³ : on 3% emulsion	GOST 6243, section 8	0
The factor of refraction		1.0

The information given in the typical data does not constitute a specification but is an indication based on current production and can be affected by allowable production tolerances. The right to make modifications is reserved by OOO "LLK-International".