

LUKOIL FREO SP 3020 LF

Universal water-miscible semi-synthetic metalworking fluid

Product description

Semi-synthetic metalworking fluid (MWF) specially designed for use in modern machine tools with high fluid supply pressure. Specialized additive package provides the ability to work with alloys of ferrous and non-ferrous metals, low tendency to foaming, protection against corrosion of equipment elements and treated surfaces. It does not leave marks on parts and equipment after processing.

Application

The product is intended for use in turning, grinding, milling, sawing, drilling, threading and other metalworking operations. Recommended for the following materials: aluminum and its alloys, low carbon and carbon steels, high temperature steels, cast iron, titanium alloys, copper and its alloys. It can be used in individual and centralized MWF supply systems.

Benefits

CORROSION PROTECTION

Excellent anti-corrosion properties

UNIVERSALITY

Suitable for ferrous and non-ferrous metals processing

RESISTANCE TO BACTERIAL ATTACK

Highly resistant to biodegradation of the emulsion even in highly contaminated systems.

EMULSION STABILITY

Forms a stable emulsion even in case of mixing with water of high hardness

The product name in an order: Metalworking fluid LUKOIL FREO SP 3020 LF, STO 79345251-260-2020

Typical test data

The information given in the typical data does not constitute a specification and can be affected by allowable production tolerances. The right to make modifications is reserved by OOO «LLK-International»

Property	Test methods	Value
Appearance	-	Homogeneous oily liquid
Stability at -15°C	GOST 6243 p.5	Pass
Corrosion preventing characteristics of 4% emulsion in water with total hardness DIN 51360-2 of 4.6 mg·EQ/dm ³ for 2 h, points, not more than		0
pH 5% emulsion in water of total hardness 4.6 mg·eq/dm ³	GOST 6243 p.4	8,5-10

Recommended concentration of emulsion

Operation type	Emulsion concentration, %
Grinding	3-5
Turning, cutting, drilling	4-6
Milling, threading	4-9