

LUKOIL FREO SP 3020 EP

Metalworking fluid for high loaded operations

Product description

Semi-synthetic metalworking fluid, designed for use in heavy cutting operations. Contains the package of polar additives that prevent scuffing and surface defects even in the processing of high-strength materials. Provides high quality of the treated surface and excellent protection of the tools against wear. Does not leave marks on parts and equipment after processing.

Application

Intended for use in general machining operations (grinding, turning, milling, drilling, cutting, etc.). Processed materials: cast iron, alloyed, heat-resistant steels, titanium, as well as some non-ferrous metal alloys. It also can be used for pressing and forming operations in small-scale production.

Benefits

HIGH LOAD CAPACITY

Allows to use the product in heavy operations

CORROSION PROTECTION

Excellent anti-corrosion properties

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 EP, STO 79345251-259-2020

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 brown oily liquid
Stability at -15°C	GOST 6243 p.5	Pass
pH 5% emulsion in water of total hardness 4.6 mg·eq/dm ³	GOST 6243 p.4	8,5-10
Corrosion preventing characteristics of 5% emulsion in water with total hardness of 4.6 mg·EQ/dm ³ for 2 h, points, not more than	DIN 51360-2	0
Refractometer correction factor	-	1.1

Recommended concentration of emulsion

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