

## LUKOIL FREO GP 2020

### Semi-synthetic metalworking fluid

#### Product description

High quality semi-synthetic metalworking fluid, developed for application in systems, where high resistance to bacterial attack and emulsion stability are required. Based on multifunctional additives, which provide high anti-corrosion and tribological characteristics, high resistant to microbiological attack and high speed of emulsification in water of wide range of total hardness. Does not contain chlorine.

#### Application

Intended for use in centralized systems and in individual machining centers. Emulsion is suitable for abrasive operations and for general machining operations of light and medium loading. Processed materials: cast iron, low carbon and carbon steel, alloy steel.

#### Benefits

##### CORROSION PROTECTION

Excellent anti-corrosion properties

##### EXTENDED DRAIN INTERVAL

Long life 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 GP 2020, STO 79345251-257-2020

#### 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
pH 5% emulsion in water of total hardness 4.6 mg·eq/dm <sup>3</sup>	GOST 6243 p.4	8,5-10
Corrosion preventing characteristics of 4% emulsion in water with total hardness of 4.6 mg·EQ/dm <sup>3</sup> for 2 h, points, not more than	DIN 51360-2	0
Refractometer correction factor	-	3.1

#### Recommended concentration of emulsion

Operation type	Emulsion concentration, %
Abrasive	4-5
General machining	4-7