

# **MAK ROLLUBE 22**

## **Description**

MAK ROLLUBE 22 is formulated with premium quality low carbon-residue base oil, fortified with effective ash less type performance additives for use in cold rolling stainless steel requiring excellent finish. It has excellent burn off characteristics and leaves no stain during annealing. MAK ROLLUBE 22 is treated with optimum friction reducing agent to minimize friction between rolls and metals as well as enhance surface finish.

## **Application**

MAK ROLLUBE 22 is specifically developed for Salem Steel Plant for use in cold rolling Stainless Steel Strip.

## **Benefits**

- Provides high surface quality of cold rolled strip
- Clean evaporation in the annealing process to preventing carbon residues/deposits
- Outstanding oxidation and thermal stability
- Excellent antiwear properties providing load carrying capacity

## **Performance Level**

- Proprietary

## Technical Specifications

Characteristics	Test method	MAK ROLLUBE 22
Appearance	Visual	Clear & Bright
Colour	ASTM D 1500	0.5
Density @29.5°C, Kg/m <sup>3</sup>	ASTM D1298	0.840
Kinematic Viscosity @40°C, cSt	ASTM D 445	19.01
Kinematic Viscosity @100°C, cSt	ASTM D 445	3.97
Flash point, °C	ASTM D 92	200
Pour point, °C	ASTM D 97	-21
Copper corrosion test, 3hrs, 100°C	ASTM D 130	1a
Rust preventive characteristics	ASTM D665-A	Pass
Total acid number, mg of KOH/gr	ASTM D 664	0.1
Conradson carbon residue, %wt	ASTM D 189	<0.01

All the mentioned values are typical which may vary from batch to batch.

## Storage and Handling

- Indoor Storage is always preferable
- Barrels should be kept horizontally with bunk position at 3 O'clock 9 O'clock position
- Barrels should be kept away from dusty or heated areas.
- During handling any contact with dust must be avoided.

## Health and Safety

These oils are not hazardous under normal conditions of use. For further guidance appropriate Material Safety Data Sheet (MSDS) may be referred.

## Advice

For any further advice on applications or otherwise please contact the nearest Bharat Petroleum Territory Office or Technical Services Department at the address given below.

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