

# MAK LLPO

## Description

MAK LLPO is light liquid paraffinic oil formulated from highly refined hydro-treated base oils, which are odorless, water white & transparent in color.

## Application

- These oils are suitable for use in processes requiring clear white oils.
- This oil makes an ideal blending base for cosmetics products.
- Incense & perfume manufacture, plastic, paper, hair oils, hair lotions, shoe polish and petroleum jelly manufacturing industries.

## Performance Level

- Meet IS 7299: 1974 requirements.

## 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.

## Technical Specifications

Characteristics	Test method	IS 7299 Requirements	Typical test results
Appearance	Visual	--	Colorless
Specific gravity @25°C	IS 1448 (P:32)	0.815 to 0.910	0.831
Kinematic Viscosity @ 37.8°C in cSt	IS 1448 (P:25)	8 to 30	13.23
Cloud point , °C	IS 1448 (P:10)	5 max	-3
Odour	IS 7299 -1974		
a) At room temperature		None	Nil
b) When heated at 95 to 98 °C for ½ hr in water bath		Not Objectionable	Nil
Free acid and alkali	IS 7299 -1974	To pass the test	passes
Saponification value, mg KOH/gr	IS 1448 (P:55)	Nil	Nil
Carbonizable substances,%	IS 7299-1974	To pass the test	passes
Sulphur and Sulphides,%	IS 7299- 1974	To pass the test	passes
Arsenic ( as As <sub>2</sub> O <sub>3</sub> ),ppm	IS 7299- 1974	2.0 max	<1
Ultra Violet absorption test, extinction, AU	IS 7299 -1974	0.1 max	0.059
Ash, % by mass	IS 1448 (P:4)	0.01 max	Nil
Lead, ppm	IS 7299- 1974	20 max	<1
Solubility in Chloroform		--	Soluble

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

## 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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