



Technical Data Sheet (TDS)

Liquid Paraffin Industrial Grade

Product Identification

Product Name: Liquid Paraffin Industrial Grade

Chemical Description: Highly Refined Mineral Oil

Synonyms:

- Industrial Grade Liquid Paraffin
- Industrial Liquid Paraffin
- Industrial White Oil
- Industrial Mineral Oil
- Technical Grade Liquid Paraffin
- White Mineral Oil for Industry
- Industrial Processing Oil

CAS Number: 8042-47-5 (*typical for highly refined mineral oils*)

EC Number: 232-455-8

Origin: Petroleum Derived Hydrocarbon Oil

Appearance: Clear, Colorless, Oily Liquid

Product Description

Liquid Paraffin Industrial Grade is a highly refined mineral oil produced through advanced refining and hydro-treatment processes. The product offers excellent chemical stability, low volatility, high purity, and reliable lubrication characteristics.

It is widely used as a processing aid, lubricant, release agent, carrier fluid, and extender oil in industrial manufacturing applications including rubber processing, PVC production, plastics manufacturing, textiles, leather processing, coatings, and machinery lubrication.



Typical Specifications

Parameter	Test Method	Specification
Appearance	Visual	Clear, Bright Liquid
Color (Saybolt)	ASTM D156	+28 Min
Density @ 15°C	ASTM D4052	0.840 – 0.880 g/cm ³
Kinematic Viscosity @ 40°C	ASTM D445	15 – 100 cSt*
Kinematic Viscosity @ 100°C	ASTM D445	Report
Viscosity Index	ASTM D2270	90 Min
Flash Point (COC)	ASTM D92	180°C Min
Pour Point	ASTM D97	-6°C Max
Refractive Index @ 20°C	ASTM D1218	1.460 – 1.480
Sulfur Content	ASTM D4294	0.05% Max
Aromatic Content	ASTM D2007	Low
Water Content	ASTM D6304	100 ppm Max
Volatility	ASTM D972	Low
Odor	Internal	Mild
Oxidation Stability	ASTM D943	Excellent

*Viscosity may vary depending on grade requested.

Physical and Chemical Properties

Property	Value
Physical State	Liquid
Color	Water White
Odor	Mild Hydrocarbon
Solubility in Water	Insoluble
Solubility in Hydrocarbons	Soluble
Boiling Range	>300°C
Flash Point	>180°C
Auto-Ignition Temperature	>320°C
Vapor Pressure	Very Low
Specific Gravity	0.84 – 0.88
Evaporation Rate	Slow



Property	Value
Oxidation Resistance	Excellent
Chemical Stability	Excellent

Key Product Features

Excellent Lubrication Properties

Reduces friction and wear in industrial processing equipment.

High Chemical Stability

Maintains performance under demanding operating conditions.

Low Volatility

Minimizes evaporation losses during industrial use.

Consistent Quality

Manufactured under strict quality control procedures.

Water Resistance

Provides protection against moisture-related issues.

Multi-Industry Compatibility

Suitable for a broad range of manufacturing applications.

Long Shelf Life

Retains quality during extended storage periods.



Industrial Applications

Rubber Industry

- Rubber compounding
- Process oil formulations
- Extender oil applications
- Elastomer processing

Benefits

- Improved dispersion
- Enhanced flexibility
- Better processability
- Reduced mixing time

Plastic & PVC Manufacturing

- PVC compounds
- Plastic extrusion
- Injection molding
- Polymer processing

Benefits

- Improved flow characteristics
- Reduced friction
- Better surface finish
- Enhanced production efficiency

Textile Industry

- Fiber lubrication
- Yarn processing
- Textile manufacturing operations

Benefits

- Reduced fiber breakage
- Improved machine performance
- Better production consistency



Leather Processing

- Leather conditioning
- Finishing operations
- Surface treatment processes

Benefits

- Improved flexibility
- Enhanced appearance
- Consistent finishing quality

Industrial Coatings

- Carrier oil
- Processing aid
- Formulation component

Benefits

- Improved formulation stability
- Better application consistency

Agricultural Equipment Applications

- Machinery lubrication
- Processing operations
- Equipment maintenance

Benefits

- Reduced wear
- Enhanced operational reliability

General Industrial Lubrication

- Machinery lubrication



- Process equipment
- Industrial systems

Benefits

- Reduced friction
- Extended equipment life
- Lower maintenance costs

Packaging Options

Packaging Type	Net Weight
Pails	20 L
Drums	200 L
IBC Tanks	1000 L
Flexitanks	Available
ISO Tanks	Available
Bulk Tankers	Available

Custom packaging available upon request.

Storage and Handling

Store in tightly closed containers in a cool, dry, and well-ventilated area.

Recommended Storage Conditions

- Storage Temperature: 5°C – 40°C
- Protect from direct sunlight
- Keep away from ignition sources
- Prevent contamination by water and dust

Shelf Life

24 Months from date of manufacture when stored under recommended conditions.



Transportation Information

Item	Information
Transport Condition	Ambient
Dangerous Goods Classification	Not Classified
UN Number	Not Applicable
IMDG Classification	Not Regulated
IATA Classification	Not Regulated

Refer to the latest SDS for transportation and safety information.

Quality Assurance

Every batch of Liquid Paraffin Industrial Grade undergoes quality testing to ensure compliance with specified parameters, including:

- Appearance
- Density
- Viscosity
- Flash Point
- Color
- Moisture Content
- Stability Characteristics

Certificates of Analysis (COA) are available upon request.

Regulatory Information

Manufactured in accordance with applicable industrial quality standards.

Compliance documents available upon request:

- Certificate of Analysis (COA)



- Safety Data Sheet (SDS)
- Technical Data Sheet (TDS)
- Product Specification Sheet