

Isopar™ fluids

High purity synthetic isoparaffins

Driving operational and SHE performance¹ together

Isopar™ fluids are high-purity synthetic isoparaffins with consistent quality and widely used from industrial to consumer applications.

Their array of attributes could help you and your customers gain a competitive advantage from multiple perspectives.



High purity

With extremely low aromatic content <100 wppm*

*typical for most Isopar grades



The right grade for each application

A broad portfolio that offers ability to customize flow, wetting and flash characteristics

Operational benefits



Manufacturing efficiency

Narrow distillation range
Compatible with most metals and plastics
Low corrosion potential



Reliable use at low temperatures

Very low pour point



Worldwide supply excellence

Available globally, backed by world-scale integrated petrochemical facilities

Improved SHE performance



Support workers' health and comfort

Lower OEL² and VHR³ risks versus white spirit
Virtually odorless, with typical aromatic content $\leq 0.01\%$



Easy to recover and reuse

Inertness and narrow boiling range make Isopar™ fluids chemically stable and therefore eligible for reuse



Regulatory clearances expands its use in multiple applications

Comprehensive product registrations for industrial and consumer uses

¹ SHE - Safety, Health and Environment. This is compared to white spirits which are hydrocarbon solvent containing C9-C11 constituents with distillation range of approximately 150-200°C and containing 15-20% aromatics; example Varsol™ 40

² Occupational Exposure Limit

³ Vapor Hazard Ratio



Isopar™ fluids: A broad portfolio across multiple applications

Industrial applications	Isopar™ C	Isopar™ E	Isopar™ G	Isopar™ H	Isopar™ K	Isopar™ L	Isopar™ M	Isopar™ V
Industrial cleaning		●	●	●		●		
Metalworking				●		●	●	
Paints & Coatings		●	●	●		●		
Polyacrylamide production			●		●		●	
Polymerization	●	●	●	●	●	●		
Printing inks			●			●		

Consumer applications	Isopar™ C	Isopar™ E	Isopar™ G	Isopar™ H	Isopar™ K	Isopar™ L	Isopar™ M	Isopar™ V
Air Fresheners & Vaporizers						●	●	●
Cosmetics & Personal Care	●	●	●	●	●	●	●	
Healthcare & Medical	●		●			●	●	
Household Cleaners & Polishes		●	●	●		●	●	
Household insecticides						●	●	●

Key properties ⁴	Test method	U.O.M	Isopar™ C	Isopar™ E	Isopar™ G	Isopar™ H	Isopar™ K	Isopar™ L	Isopar™ M	Isopar™ V
Specific Gravity at 15.6°C	ASTM D4052	/	0.699	0.723	0.748	0.758	0.760	0.766	0.787	0.812
Flash point	ASTM D56 / D93	°C	<2	7	45	55	58	64	97	127
Boiling range	ASTM D86	°C	98-104	115-140	165-175	178-189	180-199	189-207	228-254	271-307
Aniline point	ASTM D611	°C	79	73	84	85	85	86	93	99
Kinematic Viscosity at 40°C	FPA7042 / ASTM D445	mm ² /s	0.63	0.74	1.20	1.41	1.46	1.61	3.02	8.15
Aromatics content	AMS 140.31	wt%	0.002	0.002	0.001	0.001	0.003	0.004	0.006	0.03

Values in above table are typical values and do not constitute specification limits.

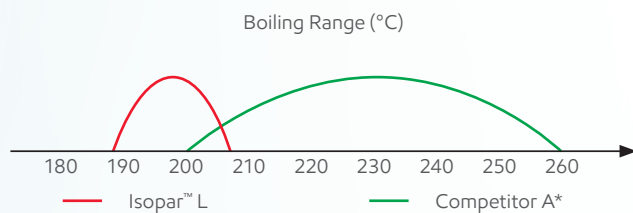
⁴Source: Fluids at a Glance Typical properties 2023 North America portfolio

Operational benefits



Manufacturing efficiency

- Narrow boiling range enables stable operation and consistent drying rate
- Compatible with most metals and plastics
- Have low corrosion potential



*GTL with 80% iso-paraffins + 20% normal paraffins



Reliable use at low temperatures

Very low pour point
<-60°C*

*Typical for most Isopar grades



Worldwide supply excellence

- ExxonMobil Chemical is the leading global producer of hydrocarbon fluids with world-scale integrated petrochemical facilities
- Isopar™ fluids are available globally, with regional distribution network

Key Hydrocarbon Fluids Site



Improved SHE performance



Support workers' health and comfort

Virtually odorless

	Odor ⁵	Occupational exposure limit (OEL) ⁶	Vapor hazard ratio (VHR)(at 20°C) ⁷	Aromatic content (wt) ⁸
White spirit/mineral spirit-based⁹	Reference	300 mg/m ³	35	≈20%
Exxsol™ D40	Up to 17x lower	1200 mg/m ³	8	<0.01%
Isopar™ L	Up to 85x lower	1200 mg/m ³	2	<0.01%

Higher OEL → Lower health hazard (inhalation)

Lower VHR means lower likelihood of exceeding the OEL

VHR ≤ 3 indicates low risk of overexposure under conditions of normal ventilation

⁵ St Croix Sensory Solvent Odor Comparative Analysis, August 2016

⁶ ExxonMobil recommended OEL using Reciprocal Calculation Procedure. (A method for calculating Occupational Exposure Limits (OELs) for hydrocarbon solvent mixtures based on the concentrations of the hydrocarbons present, and on their individual OELs. OEL can be found in Product Safety Datasheet)

⁷ Ratio of the saturated vapor concentration to the occupational exposure limit

⁸ Fluids at a Glance Typical properties 2023 Americas portfolio

⁹ Varso™ 40



Easy to recover and reuse

Low bromine index makes Isopar fluids chemically stable and eligible for reuse

Low bromine index
< 10 mg Br/100g*

*typical for most Isopar fluids grades



Isopar™ fluids has comprehensive product registrations for industrial and consumer uses

Representations ¹⁰	Key segments
Chemical Inventory/REACH	Global application
FDA Indirect Food Contact	Lubricant / Metalworking
NSF Nonfood Designations	Lubricant / Metalworking
INCI Personal Care	Cosmetics
EPA Tradename Inert Pesticide	Agriculture
Low Vapor Pressure VOC	Consumer products

¹⁰ Representations can be provided under request



Have a technical question?

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