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TECHNICAL DATA SHEET

ASI-3283S

Perfluorinated Electronic Liquid · Heat Transfer & Test Fluid

P/N 30362	**Document** TDS-30362	**Rev.** 03	**Date** 12 Nov 2026



Description

ASI-3283S is a clear, colorless, thermally stable, fully fluorinated (perfluorinated) liquid that stays liquid over a wide temperature range, making it suitable for demanding precision environments.

It is widely used in etching equipment, ion implanters and testers. Its excellent thermal and chemical stability make it a long-life **heat-transfer and heat-dissipation** fluid for semiconductor manufacturing, data centers and power electronics; as an inert fluorinated liquid it can also serve as a reaction medium.

128 °C	−65 °C	> 40 kV	None	0
Boiling point	Pour point	Dielectric strength	Flash point	ODP

Key Features

- Colorless, odorless, **non-flammable**
- **Excellent electrical insulation**
- High thermal conductivity and stability
- Chemically stable and inert
- Immiscible with water; high density
- Low viscosity and surface tension
- High boiling point, broad material compatibility
- Can be **distilled and reused** to cut costs

תקציר בעברית: ASI-3283S – נוזל פרפלואורי שקוף, יציב תרמית וכימית, לא דליק ומבודד חשמלית. משמש להעברת חום וקירור בייצור מוליכים למחצה, מרכזי נתונים ואלקטרוניקת הספק, במכונות איכול, משתלי יונים וטסטרים, וכנוזל לבדיקות הלם תרמי, בידוד והזדקנות. נקודת רתיחה 128°C, חוזק דיאלקטרי מעל 40 קילו-וולט, ODP 0. אריזה: 15 ק"ג.

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Typical physical properties (25 °C unless stated)	
Property	**Value**
Appearance	Transparent liquid
Average molecular weight	521
Boiling point (1 atm)	128 °C
Pour point	−65 °C
Liquid density (25 °C)	1.780–1.860 g/mL
Dynamic viscosity (23 °C)	1.4 mPa·s
Kinematic viscosity (23 °C)	0.75 mm²/s
Specific heat (25 °C)	1100 J/(kg·°C)
Surface tension	14.6 mN/m
Flash point	None
Ozone depletion potential (ODP)	0

Typical electrical properties	
Property	**Value**
Dielectric strength (2.54 mm / 0.1 in gap)	> 40 kV

Applications	
Heat transfer	Cooling fluid for semiconductor dry etching, wafer testing and packaging
Transformers	Cooling medium for traction transformers in high-speed trains
Cleaning	Cleaning agent for high-temperature electronic products
Testing	Leak (side-leakage), thermal-shock, insulation and high-temperature aging tests

Storage & transport	
Storage	Clean, dry, well-ventilated warehouse below 40 °C, away from light and high temperature; keep the container closed when not in use
Transport	Non-hazardous; avoid severe vibration and inverting containers when stacking

Safety & precautions	
General	Follow local protection and industrial hygiene rules for handling chemicals
Decomposition	Above 250 °C or in contact with fire, forms harmful products such as hydrogen fluoride and other fluorides: do not inhale
Hot liquid	Avoid skin contact with hot material
Workplace	Do not eat, drink or smoke while using the product (smoking forms harmful decomposition products)
Incompatible	Strong oxidizers such as chlorine and chromic acid

Ordering information		
Package	**Net weight**	**ASI P/N**
Pack	33 lb (15 kg)	30362

Specifications are subject to change without notice. Rev. history: Rev 01: first issue (previous ASI format) | Rev 02: viscosity values corrected; unverified GWP claim removed | Rev 03: עדכון עיצוב, ללא שינוי טכני