ASI Technologies

*Best Solutions to meet your needs*

TECHNICAL DATA SHEET

# ASI 7100

Fluorinated Fluid · Precision Cleaning, Coating Solvent & Heat Transfer

| | | | |
|---|---|---|---|
| **P/N** 30359 | **Document** TDS-30359 | **Rev.** 03 | **Date** 12 Nov 2026 |




## Description

**ASI 7100** is a high-purity, colorless fluorinated fluid with low surface tension, excellent wetting and high thermal and chemical stability.

It offers excellent electrical insulation, fast drying and broad material compatibility, and dissolves light flux and oils, an environmentally sound choice for **precision cleaning** of electronics, as a solvent for anti-fingerprint coatings and as a **heat-transfer** fluid in semiconductor processes.

| 61 °C | 14.15 mN/m | ≥ 41.9 kV | None | 0 |
|---|---|---|---|---|
| Boiling point | Surface tension | Dielectric strength | Flash point | ODP |

## Key Features

- **Non-flammable** (no flash point), chemically stable, electrically insulating
- Low surface tension for excellent wetting
- Low viscosity, strong thermal stability
- Heat-transfer operating range **−80 to 40 °C** (system dependent)
- Low non-volatile residue (**≤ 0.0010 %**); safe for PCBs and micro-components
- Dissolves light flux and oils
- ODP **0**, GWP 320 (100-year)
- Insoluble in water

**תקציר בעברית: ASI 7100**: נוזל פלואורי בניקיון גבוה, חסר צבע, עם מתח פנים נמוך והרטבה מצוינת. לא דליק, מבודד חשמלית, עם שארית לא נדיפה נמוכה. משמש לניקוי מדויק של אלקטרוניקה ורכיבי מוליכים למחצה, כממס לציפויים נגד טביעות אצבע על זכוכית תצוגה וכנוזל להעברת חום. נקודת רתיחה 61°C, ODP 0. אריזה: 15 ק"ג.

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ASI 7100 product page

| Typical physical properties | |
|---|---|
| **Property** | **Value** |
| Appearance | Colorless liquid |
| Odor | Slight, ether-like |
| Density | 1.5283 g/mL |
| Boiling point | 61 °C |
| Freezing point | −144 °C |
| Operating temperature range | −80 to 40 °C (heat transfer; depends on system) |
| Vapor pressure (25 °C) | 26.6 kPa |
| Latent heat of vaporization | 119.4 kJ/kg |
| Volume resistivity | $1.54 \times 10^{10}$ Ω·cm |
| Thermal conductivity (25 °C) | 0.0637 W/(m·K) |
| Specific heat (25 °C) | 1.173 J/(g·K) |
| Kinematic viscosity (25 °C) | 0.4868 $mm^2/s$ |
| Surface tension (25 °C) | 14.15 mN/m |
| Dielectric strength | ≥ 41.9 kV (2.5 mm gap) |
| Dielectric constant | 8.2 (1 MHz) |
| Dielectric loss | 0.00033 (1 MHz) |
| LC50 (4 h) | > 20,477 $mg/m^3$ |
| GWP | 320 (100-year) |
| ODP | 0 |
| **Lot specification (certificate of analysis)** | |
| Purity | ≥ 99.9 % |
| Water content | ≤ 50 mg/kg |
| Non-volatile residue | ≤ 0.0010 % |
| **Applications** | |
| Coatings | Solvent for anti-fingerprint coatings on electronic display glass |
| Heat transfer | Heat-transfer medium in semiconductor processes, including testing and assembly |
| Cleaning | Precision cleaning of electronics and semiconductor components |
| **Storage & transport** | |
| Storage | Cool, dry place away from direct sunlight and reactive substances (acids, alkalis, oxidizers) |
| Containers | Keep sealed to prevent vapor loss, the fluid is volatile |
| Transport | Non-hazardous; avoid strong impacts and inverting containers |
| **Safety & handling** | |
| Ventilation | Use in well-ventilated areas |
| Decomposition | Do not inhale thermal decomposition products |
| Incompatible | Oxidizers such as chlorine and chromic acid |
| Guidance | Follow chemical safety practice and refer to the SDS |
| Restriction | Not for use in food, cosmetics or medical applications without prior written approval |

| Ordering information | | |
|---|---|---|
| **Package** | **Net weight** | **ASI P/N** |
| Pack | 33 lb (15 kg) | 30359 |

Specifications are subject to change without notice. Rev. history: Rev 01: first issue | Rev 02: physical property values updated; applications updated; ASI format | Rev 03: עדכון עיצוב, ללא שינוי טכני