Overview

Entegris transport wafer carriers allow the transport and storage of 300 mm wafers in a more traditional, open cassette format. Open cassettes are fabricated from carbon-filled PEEK™ polymer material for extremely low particle generation during wafer transfer and contact.

To ensure equipment operability, each cassette has a kinematic coupling equipment interface. Wafers are held at the standard 10 mm spacing. The cassettes are mainly used in R&D operations, or as a wafer buffer inside a process tool minienvironment.

Superior Automation Performance

- SEMI E1.9 compliant
- High rigidity and dimensional stability
- Open sidewall style
- Integrated grooves in endwall for precise alignment with KC pins in the vertical orientation
- Four-point contact for horizontal orientation

Specifications

13-Capacity Carrier
- Length: 312 mm (12.3”)
- Width: 332 mm (13.1”)
- Height: 183 mm (7.2”)

25-Capacity Carrier
- Length: 312 mm (12.3”)
- Width: 332 mm (13.1”)
- Height: 303 mm (11.9”)

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>MATERIAL</th>
<th>PITCH</th>
<th>PART NUMBER</th>
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<tr>
<td>13 capacity, 300 mm wafer carrier</td>
<td>STAT-PRO® 3000</td>
<td>10 mm</td>
<td>A300-13MJ-47C02</td>
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<tr>
<td>25 capacity, 300 mm wafer carrier</td>
<td>STAT-PRO® 3000</td>
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Material Description

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<tr>
<th>Material</th>
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<td>Application</td>
<td>High performance wafer transport carrier material</td>
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<tr>
<td>Description</td>
<td>An advanced, static dissipative blend of polyetheretherketone and carbon fiber</td>
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<td>Surface Resistivity (Ohms/sq.)</td>
<td>$10^4$–$10^9$</td>
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<td>Continuous Use Temp. Limit</td>
<td>120°C</td>
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<tr>
<td>Wafer Insertion Temp. Limit</td>
<td>300°C</td>
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</table>
Silicon Delivery® Systems and Services

To optimize wafer and device handling in your facilities, Entegris offers Silicon Delivery® Systems and Services – our unique materials integrity management solution to cost-effectively manage silicon from production to consumption.

Wafer Handling Systems
- Raw wafer processing and shipping
- Wafer processing
- Finished wafer shipping and handling
- Related product handling
- Handling product cleaning systems

Device Handling Systems
- Finished wafer shipping and handling
- Bare die shipping and handling
- Packaged device shipping and handling
- Handling product cleaning systems

WaferCare® and DeviceCare™ Services
- Certified reuse and recycle
- Product cleaning
- Logistics management
- On-site and off-site programs
- Cleaning systems

Terms and Conditions of Sale

WARRANTY – Entegris warrants each new product against defects in materials and workmanship for the following periods of time from shipment: Microelectronic products, Custom products – 90 days; Entegris® Cleaning Systems and AutoPod® Wafer Carriers – 1 year; Fluid Handling products (except as separately identified below) including FluoroPure® Chemical Container products – 1 year; Sheeted Chemical Container products and FluoroPure® PFA Liners (blistering, cracking or leakage only) – 18 months; FluoroPure® o-rings and gasket materials – 90 days. Entegris makes no warranty, express or implied, with respect to any components, products or services provided by any third party. With respect to products specially manufactured to Buyer’s specifications, Entegris warrants only that such products have been manufactured, without testing, to Buyer’s specifications but makes no other warranty, express or implied. Upon Entegris’ confirmation of defects, Entegris agrees, as its exclusive remedy to repair or, in its discretion, replace defective product without charge. Entegris is not responsible for product damage resulting from accident, misuse, or lack of reasonable care. IMPORTANT: No other warranty, written or verbal, is authorized by Entegris. Entegris is not liable for any special, incidental or consequential damages. Implied warranties of merchantability and fitness for a particular purpose are specifically disclaimed.

For More Information

Contact your local Entegris representative or your local Entegris Regional Customer Service Center for more information on wafer handling products.

Entegris Regional Customer Service Centers

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<th>Region</th>
<th>Telephone</th>
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<td>952-556-4181</td>
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For the latest information on open process carriers, visit Entegris’ Web site at www.wafercare.com
Overview

Entegris process enhancement wafer carriers are designed to optimize automated wet bench processes. The carriers have minimum surface area so as to allow the liquid process chemicals unobstructed access to the wafers. Wafers are held at 5 mm spacing to maximize the throughput of any wet bench tool, providing a more effective, consistent processing across the surface of each wafer.

Superior Automation Performance

- Open-flow carrier allows solutions to pass through evenly and quickly
- One-half the volume and mass of traditional process carriers
- One-fourth the surface area of traditional process carriers
- Modular construction includes reinforcement rods for added rigidity and strength
- Lift points on carrier ends for automated handling
- V-notch locators on carrier ends and rails for location on equipment
- Chemical resistant PFA material wetted surface

Specifications

52-Capacity Carrier
- Length: 345 mm (13.6”)
- Width: 302 mm (11.9”)
- Height: 106 mm (4.2”)

26-Capacity Carrier
- Length: 215 mm (8.5”)
- Width: 302 mm (11.9”)
- Height: 106 mm (4.2”)

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<td>52 capacity, 300 mm wafer process enhancement carrier</td>
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Material Description

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<td>Natural PFA</td>
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<tr>
<td>Application</td>
<td>Process wafer carrier material</td>
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<td>Description</td>
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<tr>
<td>Surface Resistivity (Ohms/sq.)</td>
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<td>Continuous Use Temp. Limit</td>
<td>180°C</td>
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<td>Wafer Insertion Temp. Limit</td>
<td>290°C</td>
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Overview
Process development wafer carriers are fabricated from Teflon® PFA material for universal liquid chemical compatibility. Integrated handles allow easy manipulation of the carrier. The primary use for these wafer carriers is in research and 300 mm process development.

Superior Wafer Protection
- Open-flow carrier allows solutions to pass through evenly and quickly
- Chemical-resistant PFA material wetted surface
- Two handle design
- Full side walls to protect entire wafer during manual handling

Specifications
13-Capacity Carrier
- Length: 220 mm (8.7”)
- Width: 353 mm (13.9”)
- Height: 538 mm (21.2”)

6-Capacity Carrier
- Length: 175 mm (6.9”)
- Width: 353 mm (13.9”)
- Height: 538 mm (21.2”)

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Material Description
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<th>Material</th>
<th>Application</th>
<th>Description</th>
<th>Surface Resistivity (Ohms/sq.)</th>
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Mykron

Mykron Microelectronics Co., Ltd.

上海资方微电子有限公司

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