95A ESD Aluminum Core Polyurethane Wheel

Title	95A ESD Aluminum Core Polyurethane Wheel
Thumb	
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Description

In the world of semiconductor manufacturing and automated transport, the demand for [illegible] with superior concentricity and vibration control.

Core Technical Specifications

Feature	Specification	Advantage
Durometer	95A Shore A	High load-bearing capacity; min[illegible] deformation under long-term pressure.
Core Material	A5056 Aluminum Alloy	High strength-to-weight [illegible] corrosion resistance.
Surface Treatment	Anodic Oxidation	Increases core hardness and enha[illegible] strength with the coating.
ESD Rating	10^8 Omega	Stable static dissipation to [illegible] semiconductor components.
Manufacturing	Precision Casting and CNC Grinding	Ensures ultra-high [illegible] smooth [illegible]-free operation.

Why Choose Our Solution?

1. Superior Material Science: High Tensile & Low Wear

Utilizing a modified polyurethane elastomer, our wheels boast tensile strength and tear resistance [illegible] low abrasion rate ensures a long service life and significantly reduced maintenance costs.

2. Permanent Anti-Static Performance

Unlike products that rely on surface coatings, our anti-static agents are integrated [illegible] compromise the wheel's ability to prevent ESD damage to wafers or precision circuits.

3. A5056 Core with Anodic Oxidation

The wheel hub is crafted from premium A5056 aluminum. The anodic oxidation process creates a durable, integrated bond between the aluminum and the polyurethane, virtually eliminating the risk of de-bonding.

4. Precision Concentricity for Zero Vibration

Each wheel undergoes secondary CNC precision grinding to maintain concentricity within micro-tolerances.

Minimal Vibration: Prevents interference with sensors on AGVs (Automated Guided Vehicles).

Low Noise: Contributes to a quieter working environment in Class 100/1000 cleanrooms.

By combining 140-hour cure and secondary CNC precision grinding, we address the de-bonding and high run-out points like de-bonding and high run-out in high-hardness wheels.

Applications

Semiconductor Assembly & Testing: Wafer handling robots and automated conveyor lines.

Precision Electronics: High-end SMT lines and flexible circuit board transport.

Medical & Laboratory: Supporting high-precision instruments sensitive to vibration and static.

Conclusion: The New Standard for Localization

We understand the semiconductor industry's pursuit of "Zero Defects." This 95A ESD alternative to Japanese and Korean imports.

Stop paying the "Import Premium." Our wheels have been field-tested in leading specifications. Contact us today for custom