Vibration Damping Casters

- **Rubber Wheel**: Enhances durability against degradation.
- **Urethane Wheel**: Diameter Ø100 (Normal Casters)
- **Antistatic Countermeasures**: To prevent conductive contamination.
- **Vibrational Acceleration**: $[m/sec^2]$ for caster and system analysis.
- **Material Specific Volume Resistivity**: Of wheels for static control.
- **Specific Volume Resistivity of Wheels**: $[\mu m]$ for precise control.

Casters for Clean Environment

- **Main Body**: Material, Wheel Type, Bearing Types.
- **Wheel Diameter**: Ø100 (Normal Casters)
- **Wheel Material**: Electrically Conductive, Antistatic Urethane.
- **Price**: Unit Price, Discount Rate.
- **Dimensions**: H, D, r, Allowable Load, Unit Price.

**Functional Comparison**: By Damper Type

- **New Vibration Damper**: Reduces vibration and particle generation.
- **Conventional Anti-Static Caster Wheels**: May vary in electrical resistivity.

**Material Specific Volume Resistivity**

- **Wheel Material**: Electrically Conductive, Antistatic Urethane.
- **Specific Volume Resistivity**: $[\mu m]$ for precise control.

**Evaluation Test Outline**

- **Subject Caster**: CHEPA75 – U (Electrically Conductive MC Nylon)
- **Test Conditions**: Clean booth (Class 10)
- **Environment**: Clean booth in a clean room (Class 10)
- **Run Speed**: 2km/hr
- **Particle Generation Comparison**: 0.3 µm or More

**Particle Generation Characteristics of Casters**

- **Particle Generation**: Comparisons of particle counts.
- **Testing Instrument**: JIS B 8923 Compliant with Casters for Industrial Use
- **Testing Type**: CHEPA75 (Clean caster + Anti-static Wheel)

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