Silicon Nitride Ceramic Precision Balls
ASTM F2094 Class 2 precision balls for a variety of applications

With more than 70 years experience in manufacturing and supplying high-quality precision balls, Thomson is well-equipped to provide the ideal standard or custom solution for your application. Silicon nitride precision balls, a popular choice among bearing designs and other high-precision products, excel in low-noise, high-rigidity and high-load-carrying applications. These balls can be run dry in a vacuum environment and up to 500°F without lubrication.

**Key Markets**
- Aerospace
- Department of Defense
- Dental and medical
- Biomedical innovation and research
- Industrial
- Electronics

**Ideal Applications**
- Bearings
- Machine tools
- Sprayers
- Wind turbines
- Cosmetic / chemical mixing balls
- Semiconductors

**Benefits**
- Self-lubricating
- Non-corrosive
- Anti-magnetic
- Extremely durable
- Compared to steel:
  - 60% lighter
  - Twice the material hardness
  - 70% less coefficient of thermal expansion

### Standard Size Range

<table>
<thead>
<tr>
<th>Standard Size Range</th>
<th>Grade Range</th>
<th>Standard Grade</th>
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<tbody>
<tr>
<td>1/32” - 2”</td>
<td>G3 - G100</td>
<td>10</td>
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</table>
Thomson Precision Balls

Made with Pride – Backed by Accreditations
- Registered to ISO 9001:2015.
- Accredited Lab to ISO 17025 by A2LA, for measurement of size, sphericity and surface finish.
- Statistical uncertainty of 0.000066”, 3rd party verified.

Manufacturing Capabilities
- Since 1946, our US-based manufacturing facility has been specializing in producing a variety of unique sizes.
- We globally source our materials to meet any customer specifications, including DFARS.
- Our Kanban inventory, lean manufacturing and flexibility reduce our lead time to meet your demands.

Held to a Higher Standard
- Our 52100 Series fully meets AMS 6440.
- Our 440C Stainless Steel fully meets AMS 5630 and AMS 2700.
- We provide raw material certificates and a Certificate of Conformance with all shipments at no charge.