



THOMSON PRECISION BALLS

Made with Pride –
Backed with Accreditation

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	Grade Range	Standard Grade
1/32" - 2"	G3 - G100	10



Linear Motion. Optimized.™

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- 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.

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