



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