Thomson Precision Ball

Overview of Standard and Custom Precision Balls
Quality Ball Technology From Thomson: FAST

Thomson Precision Ball offers the finest in quality ball technology with fast delivery times. The Thomson Precision Ball A2LA (ISO 17025) accredited calibration laboratory ensures unparalleled quality with a unique blend of metrology services. We can leverage over 70 years of application experience and prototyping to provide the right standard or custom solution to your project. And, we are ISO 9001:2000 registered to ensure consistency and quality in all operations.

We offer ball sphericity within 3 millionths of an inch (0.077 micron), 100% quality inspection, and a choice of over 27 high performance materials—all guaranteed to meet or exceed the standards of the ISO 3290. Look below for a partial list of our most common products. Many other precision ball materials are also available upon request.

<table>
<thead>
<tr>
<th>Material Type</th>
<th>Size Range</th>
<th>Grade Range</th>
<th>Standard</th>
<th>Delivery Time</th>
<th>Applications</th>
</tr>
</thead>
</table>
| Carbon                        | 1/16" - 1" | 100-1000 and burnishing media | Grade 200 | 1-6 weeks     | • Inexpensive bearings  
• Drawer slides  
• Casters  
• Ball transfer units  
• Conveyers |
| Chrome Steel (52100)          | 1/16" - 3" | 5-1000 and burnishing media | Grade 10 and 25 | Stock-6 weeks | • Bearings  
• Ball screws  
• Automotive (transmission, steering, anti-lock brakes)  
• Valves  
• Couplings  
• Locks  
• Slides  
• Conveyers |
| Stainless Steel (440C, 420)   | .012 - 3"  | 5-100 and burnishing media | Grade 25 | Stock-6 weeks | • Bearings  
• Ball screws  
• Automotive (transmission, steering, ABS, seat belts, fuel injectors) |
| Stainless Steel (302, 316, 430) | 1mm - 1"    | 100-1000 and burnishing media | Grade 100 | Stock-6 weeks | • Valves  
• Couplings  
• Detent balls  
• Locks  
• Vent ball  
• Mixing balls (soap dispensers, cosmetics)  
• Ball transfer units  
• Plug balls  
• Pumps  
• Slides  
• Disk drives  
• Pump sprays |
| Ceramic (silicon nitride)     | 1mm - 2"    | 3-25        | Grade 5  | 2-10 weeks    | • High end bearings  
• Ball screws  
• Valves  
• Aero space bearings  
• Windmill bearings  
• Used where high wear, corrosion resistant, high temp and no lubrication needed. |
| Titanium                      | 1mm - 3/8"  | 25-200      | Grade 200 | Stock-8 weeks | • Body Jewelry  
• Light weight applications  
• Corrosion resistant cable ends |
| Brass                         | 1/16" - 1"  | 200-1000    | Grade 200 | 2-6 weeks     | • Marine applications  
• Bearings  
• Valves  
• Check balls  
• Can be silver plated as electrical contact balls |
| Tungsten Carbine              | 1/16" - 1"  | 5-200       | Grade 25  | 4-8 weeks     | • High hardness applications  
• Test balls for Rockwell testers |
| Monel and K-Monel             | 3/32" - 7/16" | 100-200    | Grade 100 | 6-10 weeks    | • Corrosion resistant applications such as marine and nuclear  
• Valves & check valves |
| Glass                         | 1/8" - 7"   | 100-1000    | Grade 100 | 6-10 weeks    | • Specialty bearing  
• Mixing balls  
• Pump sprays |
| Hollow Stainless Steel        | 5/8" - 2"   | 200-1000    | Grade 200 | 1" stk 6-8 weeks all others | • Light weight corrosion resistant applications  
• Ball transfer units for aircraft  
• Check valves  
• Float balls |

Other precision ball materials available upon request.
**Quick Quote Form**

To receive your quote, please complete this form and fax it to us at 540-639-4162. You can also email the information requested in this quote to thomson@thomsonlinear.com or call our customer service group at 540-633-3549.

<table>
<thead>
<tr>
<th>Material Type</th>
<th>QUOTE 1</th>
<th>QUOTE 2</th>
<th>QUOTE 3</th>
<th>QUOTE 4</th>
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<tbody>
<tr>
<td>Size</td>
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<td>Grade</td>
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<td>Other Specifications</td>
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Please provide detailed contact information in case we need clarifications on your quote:

Name:__________________________________________________________________________________________________
Title:__________________________________________________________________________________________________
Company:________________________________________________________________________________________________
Address:________________________________________________________________________________________________
City:___________________________________________ State:________  ZIP: _____________  Country:__________________
Phone:__________________________________________________________________________________________________
Fax:____________________________________________________________________________________________________
E-mail:_________________________________________________________________________________________________
Local Sales Agents are also available at:

Ohio, Indiana, Kentucky and West Virginia

Boberschmidt & Associates
E-mail: lbober@cinci.rr.com
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For immediate assistance:

Thomson Customer Service

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