

**Q: What is Sentinel Series?**

A: Sentinel Series products 100% stainless steel inserts and ball bearings filled with H1 food-grade solid lube.

**Q: Why Sentinel Series?**

A: Sentinel Series protects rotating machine parts in wet washdown applications. One and done installation saves time and money. No greasy mess means no clean up or risk of product contamination.

**Q: What are the most common applications for Sentinel Series bearings?**

A: Common applications are food and beverage machinery such as conveyors, fillers, and brushing machines.

**Q: What grease options are available with Sentinel Series bearings?**

A: All Sentinel Series bearings come pre-lubricated with a H1 food-grade solid lube with a 100% fill that operates in a temperature range of 14°F (-10°C) to 212°F (100°C).

**Q: Why 100% fill?**

A: 100% fill provides more lubricant for longer life, eliminates extra voids for contamination to fill up and helps seal the bearing components away from foreign matter (water, dust, etc.).

**Q: What is the difference between food-grade solid lube designated by FG1 and grease?**

A: Food-grade solid lube is a polymer impregnated with H1 food-safe oil which helps prevent lubricant washout. Food-grade grease is a standard H1 food lubricant used in our corrosion resistant products.

**Q: Is the solid lube used in the Sentinel Series products registered with NSF?**

A: The lubricant in Sentinel Series has a NSF registration number of 154154 which states this formulation complies with the NSF guidelines. The product is acceptable as a lubricant with incidental food contact (H1) for use in and around food processing areas.

**Q: How does solid lubricant work?**

A: Oil is stored in a porous solid material that acts like a sponge and releases the necessary base oil to lubricate the components as it rotates.

**Q: What kind of lubrication maintenance is required for Sentinel Series?**

A: Sentinel Series requires no maintenance for the life of the bearing.

**Q: What is the limiting speed for solid lube bearings?**

A: Please reference the Sentinel Series catalog for limiting speed values. Solid lube will reduce the limiting speeds of these bearings.

**Q: What is the designation for food-grade solid lube?**

A: FG1 is our designation used for ordering food grade solid lube. You may see a suffix "LSA" on the bearing but this is only a manufacturing designation that means the same thing.

**Q: Do bearing unit inserts come with an anti-rotation pin?**

A: Yes. All Sentinel Series bearing unit inserts come with an anti-rotation pin on the outer ring.

**Q: What kind of steel material is used in the insert?**

A: Sentinel Series parts are all stainless steel ball bearings so there is no need to worry about protective coatings chipping off.

Balls & both rings – AISI 440 C

Retainer, slinger, & seal plate – AISI 302

**Q: Do housings have a lubrication fitting?**

A: All stainless Sentinel Series housings will have the lubrication fitting removed and plugged. All thermoplastic Sentinel Series housings (except the 3-bolt flange) will be a solid housing. The 3-bolt flange units will be plugged.

**Q: What colors are available in thermoplastic?**

A: Thermoplastic units are only available in white.

**Q: Are covers available with all Sentinel Series bearing units?**

A: All Sentinel Series bearing units will include covers based on which designation is ordered. CC denotes one closed cover with an open cover, if applicable, and C0 denotes one or two open covers, if applicable.

Flange units receive one cover.

Pillow blocks receive two covers.

**Q: What bore sizes are available?**

A: Bore sizes range from  $\frac{3}{4}$ " to 2  $\frac{1}{4}$ ".

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For technical questions, **email [techsupport@ntn.ca](mailto:techsupport@ntn.ca)**.

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**Q: What are the bearing seals made of?**

A: Ball bearings have nitrile rubber seals, while insert bearings have silicone rubber seals.

**Q: How can I learn more about Sentinel Series products?**

A: Contact your NTN account representative or call 1-800-323-2358 to learn more about Sentinel Series.

**Q: How do I order Sentinel Series products?**

A: Contact any NTN authorized distributor to order Sentinel Series.

## Beyond Bearings

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