

DEEP GROOVE BALL BEARINGS

High Corrosion-Resistant ES1 Stainless Steel

NSK is the world's leading producer of deep groove ball bearings. NSK's constant bearing improvement program has developed a high corrosion-resistant ES1 stainless steel. Providing better corrosion resistance than standard SUS440C stainless steel in a high-humidity environment, ES1 stainless steel contributes towards reducing maintenance, downtime and replacement costs in operation.



Condition Description:

- ✓ High-humidity
- ✓ Clean environment
- ✓ Chemical environment

Product Features:

- NSK high corrosion-resistant stainless steel
- NS7 grease, high performance lithium-base
- Durable nitrile rubber contact seals
- Martensitic stainless steel outer / inner rings and balls
- Polyamide resin or corrugated stainless steel cage
- Shielded type is available

Product Benefits:

- Superior corrosion-resistance than SUS440C stainless steel
- High hardness (equivalent to SUS440C)
- Outperforms SUS440C in durability
- Efficient sealing and protection options
- Available in Molded-Oil™ to suit grease-free clean environments

Applications:

- Material handling
- Food processing
- Chemical processing
- Fishery equipment
- Cleaning equipment

62 | 05 | -H-20 | T1X | DDU

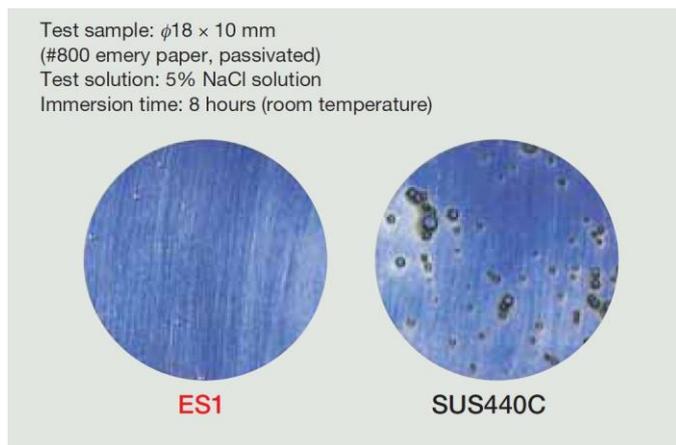
Bearing Type ———
 Bearing Bore Code ———
 ES1 Stainless Steel ———

—————
 Contact Seal
 Polyamide Cage

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High Corrosion-Resistant ES1 Stainless Steel

While SUS440C martensitic stainless steel is more corrosion-resistant than bearing steel for normal environments, corrosion may still occur under various degrees of exposure to water or salt water. In consideration of this, NSK developed ES1 martensitic stainless steel, which has higher corrosion resistance. This steel is most suitable for environments where rust must be prevented.



Outperforms SUS440C in corrosion-resistance



In testing, ES1 Stainless Steel outperformed other stainless steels in 5% aqueous sodium chloride immersion test, a salt-water spray test, 5-N sulphuric acid and 5-N hydrochloride solution immersion tests, and life tests in water.

➤ **Corrosion-resistance of ES1**

Stock available from New Zealand and Australia		Stock from Japan
6000-H-20T1XDD	6200-H-20T1XDDU	608-H-20T1XDDMC3
6001-H-20T1XDDU	6201-H-20T1XDDU	6011-H-20DDU
6002-H-20T1XDDU	6202-H-20T1XDDU	6012-H-20DDU
6003-H-20T1XDDU	6203-H-20T1XDDU	6211-H-20DDU
6004-H-20T1XDDU	6204-H-20T1XADDU	6212-H-20DDU
6005-H-20T1XBDDU	6205-H-20T1XADDU	6900-H-20T1XDD1
6006-H-20T1XDDU	6206-H-20T1XDDU	6901-H-20T1XDD1
6007-H-20T1XDDU	6207-H-20T1XDDU	6902-H-20T1XDD1
6008-H-20T1XDDU	6208-H-20T1XADDU	6903-H-20T1XDDU1
6009-H-20DDU	6209-H-20DDU	6904-H-20T1XDDU
6010-H-20DDU	6210-H-20DDU	6905-H-20T1XDDU
for ZZ shields, Molded-Oil and other sizes, please contact NSK		6802-H-20DD

* Subject to prior sale

For more information about NSK products, please contact:

www.au.nsk.com