

# INNOVATION

## TF Tough Steel™ Series Bearings



NSK's TF Tough Steel™ Series Bearings have been designed for outstanding toughness under harsh conditions. They combine longer service life & superior resistance against wear, seizure & heat (also in contaminated lubrication).



### Product Features

- › Special material.
- › Innovative heat treatment technology.
- › Outperforming standard bearing steel.
- › TF, NTF, HTF STF, WTF – material to cater to all your environments.
- › TF series materials can be applied to a wide range of bearings:
  - › Cylindrical & taper roller bearings
  - › Spherical roller bearings
  - › Deep-groove ball bearings
  - › Angular contact ball bearings

### Product Benefits

- › Up to 10 times service life with contaminated lubrication.
- › Up to twice the service life under clean lubrication.
- › Up to 4 times the service life at 160°C.
- › Less than one-third the rate of wear.
- › 40% improvement in seizure resistance.

### Condition Description:

- Contamination
- Heat
- Heavy loads
- Boundary/ improper lubrication

### Applications:

- › Gearbox / Gear Drive

