

# SILICON NITRIDE CERAMIC BEARINGS

## Extreme Sports Use

### WHY SILICON NITRIDE?

**LIGHTER** Ceramic balls are lighter than steel balls. This means that the ball exerts less force outward against the outer race groove as the bearing spins. This reduction in outward force reduces the friction and rolling resistance. The light ball allows the bearing to rev up faster and uses less energy to maintain speed.

**HARDER** Ceramic balls are harder than steel balls. This gives you a bearing that will last up to 10 times longer than the steel ball bearing because it holds its finish better.

**SMOOTHER** The ceramic ball has smoother surface properties than the steel ball. This means less friction between the ball and bearing races giving you a faster spinning bearing.

**THERMAL** The ceramic ball has better thermal properties than the steel ball. The ceramic ball will not heat up like a steel ball. This helps avoid heat building up in the bearing, a primary culprit in skate and skateboarding bearing performance degradation.

**LUBRICATION** The ceramic balls are impervious to oxidation, chemicals and require essentially no lubricant.

### SPECIFICATION

ITEM	MEASUREMENT
INNER & OUTER RACE MATERIAL	CHROME STEEL GCr15
BALL MATERIAL	100% SILICON NITRIDE
RETAINER	NYLON
SHIELD MATERIAL	RUBBER
LUBRICANT	KYODOYUSHI GREASE / OIL
DEPTH OF GROOVES	0.34mm
VIBRATION (NOISE)	27 ~ 32 db
RACE HARDNESS	HRC 60 ~ 63
DEVIATION OF MEAN BORE DIAMETER	0 ~ -4um
DEVIATION OF MEAN OUTSIDE DIAMETER	0 ~ -5um

### CUSTOMISATION

ITEM	STANDARD COLORS	NON-STANDARD COLOR MOQ
OUTER RACE	SILVER, GOLD & BLACK	30,000 PIECES PER COLOR
RETAINER	WHITE & YELLOW	10,000 PIECES PER COLOR
BALLS	BLACK	NOT AVAILABLE
INNER RACE	SILVER, GOLD & BLACK	30,000 PIECES PER COLOR
SHIELD	BLACK, BLUE, RED RED & PURPLE	15,000 PIECES PER COLOR 25,000 PIECES FOR WHITE

### SILICON NITRIDE CERAMIC BALLS



### CONTACT INFORMATION

Eric Chi  
Phone 886 2 2809 5266  
Email [eric@wever.com.tw](mailto:eric@wever.com.tw)  
5F No 29-2 Section 2 Chung Cheng East Road  
Danshui District New Taipei City 25170 Taiwan

