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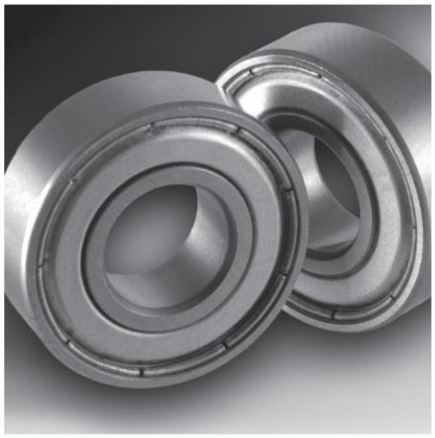

Thin Section Ball Bearings Inch Design ANSI/ABMA 26.2:1994

Secretariat

American Bearing Manufacturers Association

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Stabilized Maintenance 2013

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THIN SECTION BALL BEARINGS
INCH DESIGN

1 Scope

This standard specifies the boundary dimensions and the tolerances for boundary dimensions, running accuracies and internal clearances for thin section ball bearings of single row radial contact, angular contact and four-point angular contact types.

2 References

ANSI/ABMA Standard 1**,** Terminology for Anti-Friction Ball and Roller Bearings and Parts.

ANSI/ABMA Standard 4, Tolerance Definitions and Gauging Practices for Ball and Roller Bearings.

ANSI/ABMA Standard 7, Shaft and Housing Fits for Metric Radial Ball and Roller Bearings (except Tapered Roller Bearings) Conforming to Basic Boundary Plans.

ANSI/ABMA Standard 9, Load Ratings and Fatigue Life for Ball Bearings.

3 Terminology

3.1 Types of bearings

3.1.1 Thin section ball bearing, radial contact (Type C). A deep groove ball bearing, or filling slot ball bearing, designed to support primarily radial load.

3.1.2 Thin section ball bearing, angular contact (Type A). A non-separable angular contact ball bearing with a counter-bored outer ring and a nominal 30° axial contact angle.

3.1.3 Thin section ball bearing, four-point contact (Type X). A four point contact ball bearing with a nominal 30° radial contact angle.