

BUREAU OF INDIAN STANDARDS

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IS 9897:2023

ISO 1832:2017

भारतीय मानक मसौदा

कटिंग औजारों के लिए परिवर्त्य इन्सर्ट – अभिनाम

(चौथा पुनरीक्षण)

Draft Indian Standard

**Indexable Inserts for Cutting Tools — Designation
(Fourth Revision)**

ICS 25.100.01

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Last date for receipt of comment is
08-09-2023

Cutting Tools Sectional Committee, PGD 32

NATIONAL FOREWORD

(Formal clauses will be added later)

This standard was originally published in 1993 based on ISO 1832:1985 and was subsequently revised thrice. The fourth revision of this standard has been undertaken to align it with latest version of ISO 1832.

The main changes in this revision are as follows:

- Normative references in Clause 2 have been updated.
- Table-5 has been modified by including new variety of rhombic inserts of shape V having 12.7 mm diameter of inscribed circle.
- Table 17 has been modified by including letter symbol for full cutting edge length.

The text of ISO Standard has been approved as suitable for publication as an Indian Standard without deviations. Certain conventions are, however, not identical to those used in Indian Standards. Attention is particularly drawn to the following:

- a) Wherever the words ‘International Standard’ appear referring to this standard, they should be read as ‘Indian Standard’.
- b) Comma (,) has been used as a decimal marker while in Indian Standards, the current practice is to use a point (.) as the decimal marker.

In this adopted standard, reference appears to certain International Standards for which Indian Standards also exist. The corresponding Indian Standards, which are to be substituted in their respective places, are listed below along with their degree of equivalence for the editions indicated

<i>International Standard</i>	<i>Corresponding Indian Standard</i>	<i>Degree of Equivalence</i>
ISO 513 Classification and application of hard cutting materials for metal removal with defined cutting edges — Designation of the main groups and groups of application	IS 2428:2007 Classification and application of hard cutting materials for metal removal with defined cutting edges — Designation of the main groups and groups of application	Identical
ISO 3002-1 Basic quantities in cutting and grinding — Part 1: Geometry of the active part of cutting tools — General terms, reference systems, tool and working angles, chip breakers	IS 11522 (Part 1) : 1986 Recommendations for basic quantities in cutting and grinding Part 1: Geometry of the active part of cutting tools, General terms, reference systems, tool and working angles and chip breakers	Identical
ISO 16462 Cubic boron nitride inserts, tipped or solid — Dimensions, types	IS 17023 : 2013 Cubic boron nitride inserts, tipped or solid — Dimensions, types	Identical
ISO 16463 Polycrystalline diamond inserts, tipped — Dimensions, types	IS 17027 : 2018 Polycrystalline diamond inserts, tipped — Dimensions, types	Identical

For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated expressing the result of a test or analysis, shall be rounded off in accordance with IS 2: 1960 ‘Rules for rounding off numerical values (*revised*).’ The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

NOTE: The technical content of draft standard is not available on website. For details please refer to ISO 1832:2017 or contact:

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