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Doc: PGD 37(26460) WC
September 2024

भारतीय मानक मसौदा

मीटरी सूक्ष्म अंतराल वाली चूड़ी सहित (शैली 1) षट्कोणीय ढिबरियाँ – उत्पाद ग्रेड ए और बी – विशिष्टि

(IS 13722 *का तीसरा पुनरीक्षण*)

Draft Indian Standard

Hexagon Regular Nuts (Style 1) with Metric Fine Pitch Thread — Product Grades A and B — Specification

(*Third Revision of* IS 13722)

ICS 21.060.20

General engineering and Fasteners Standards Sectional Committee, PGD 37	Last date for receipt of comment is **25 October 2024**

NATIONAL FOREWORD

(*Formal clauses will be added later*)

This Indian Standard was first published in 1993 and was subsequently revised in 2002 and 2018. This third revision has been undertaken to align it with ISO 8673 : 2023.

This Standard covers the requirements of style 1 hexagon nuts with fine pitch threads. Nuts with fine pitch threads and of style 0 and style 2 are covered separately under IS 13724 : 2024 and IS 13723 : 2024 respectively.

The major changes in this revision are as follows:

a) Nuts with $D > 39$ mm [with $m_{min} < 0.8D$ not conforming to IS 1367 (Part 6) nor to IS 1367 (Part 14/Sec 2)] have been shifted to informative Annex A and a reference to ISO/TR 16224 has been added for appropriate nut design;
b) Nuts with dimensions M12×2 and M22×2 have been added;
c) The dimensions $d_{a,max}$, $d_{w,min}$ and $m_{w,min}$ have been specified with two decimal places;
d) For steel nuts, quenching and tempering condition has been specified in accordance with IS 1367 (Part 6);
e) For stainless steel nuts, grades D4 and D6 and property class 80 have been added;
f) Non-ferrous metal nuts have been deleted (as a consequence of the withdrawal of ISO 8839);
g) Specification for marking and labelling have been added as clause 6.

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 the certain International Standard for which Indian Standard also exists. 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:

International Standard	*Corresponding Indian Standard*	*Degree of Equivalence*
ISO 225 Fasteners — Bolts, screws, studs and nuts — Symbols and descriptions of dimensions	IS 8536 : 2021/ISO 225 : 2010 Fasteners — Bolts, screws, studs and nuts — Symbols and descriptions of dimensions (*second revision*)	Identical
ISO 898-2 Fasteners — Mechanical properties of fasteners made of carbon steel and alloy steel — Part 2: Nuts with specified property classes	IS 1367 (Part 6) : 2024/ISO 898-2 : 2022 Technical supply conditions for threaded steel fasteners: Part 6 Mechanical properties of fasteners made of carbon steel and alloy steel — Nuts with specified property classes — Coarse thread and fine pitch thread (*fifth revision*)	Identical
ISO 965-1 ISO general purpose metric screw threads — Tolerances — Part 1: Principles and basic data	IS 14962 (Part 1) : 2018/ISO 965-1 : 2013 ISO general purpose metric screw threads — Tolerances: Part 1 Principles and basic data (*first revision*)	Identical
ISO 1891-4 Fasteners — Vocabulary — Part 4: Control, inspection, delivery, acceptance and quality	Doc. PGD 37 (22772) Fasteners — Vocabulary: Part 4 Control, inspection, delivery, acceptance and quality	Identical
ISO 3269 Fasteners — Acceptance inspection	IS 1367 (Part 17) : 2023/ISO 3269 : 2019 Technical supply conditions for threaded steel fasteners: Part 17 Inspections, sampling and acceptance procedure (*fifth revision*)	Identical
ISO 3506-2 Fasteners — Mechanical properties of corrosion-resistant stainless-steel fasteners — Part 2: Nuts	IS 1367 (Part 14/Sec 2) : 2023/ISO 3506-2 : 2020 Technical supply conditions for threaded steel fasteners: Part 14 Mechanical	Identical

with specified grades and property classes	properties of corrosion-resistant stainless-steel fasteners, Section 2 Nuts with specified grades and property classes (*fifth revision*)	
ISO 4042 Fasteners — Electroplated coating systems	IS 1367 (Part 11) : 2024/ISO 4042 : 2022 Technical supply conditions for threaded steel fasteners: Part 11 Electroplated coating systems (*fifth revision*)	Identical
ISO 4759-1 Tolerances for fasteners — Part 1: Bolts, screws, studs and nuts — Product grades A, B and C	IS 1367 (Part 2) : 2002/ISO 4759-1 : 2000 Technical supply conditions for threaded steel fasteners: Part 2 Tolerances for fasteners — Bolts, screws, studs and nuts — Product grades A, B and C (*third revision*)	Identical
ISO 6157-2 Fasteners — Surface discontinuities — Part 2: Nuts	IS 1367 (Part 10) : 2002/ISO 6157-2 : 1995 Technical supply conditions for threaded steel fasteners: Part 10 Surface discontinuities — Nuts (*third revision*)	Identical
ISO 8991 Designation system for fasteners	IS 1367 (Part 16) : 2002/ISO 8991 : 1986 Technical supply conditions for threaded steel fasteners: Part 16 Designation system for fasteners (*third revision*)	Identical
ISO 8992 Fasteners — General requirements for bolts, screws, studs and nuts	IS 1367 (Part 1) : 2014/ISO 8992 : 2005 Technical supply conditions for threaded steel fasteners: Part 1 General requirements for bolts, screws, studs and nuts (*fourth revision*)	Identical
ISO 10683 Fasteners — Non-electrolytically applied zinc flake coating systems	IS/ISO 10683 : 2018 Fasteners — Non-electrolytically applied zinc flake coating systems	Identical

The standard also makes a reference to the BIS Certification Making of the product. Details of which are given in National Annex A

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 : 2022 ‘Rules for rounding off numerical values (*second revision*)’. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

NATIONAL ANNEX A
(*National Foreword*)

A-1 BIS CERTIFICATION MARKING

The product(s) conforming to the requirements of this standard may be certified as per the conformity assessment schemes under the provisions of the *Bureau of Indian Standards Act*, 2016 and the Rules and Regulations framed thereunder, and the products may be marked with the Standard Mark.

NOTE: The technical content of draft standard is not available on website. For details, please refer to ISO 8673 : 2023 or contact:

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