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IS 1367-7 (1980): Technical supply conditions for threaded steel fasteners, Part VII: Mechanical properties and test methods for nuts without specified proof loads [PGD 31: Bolts, Nuts and Fasteners Accessories]

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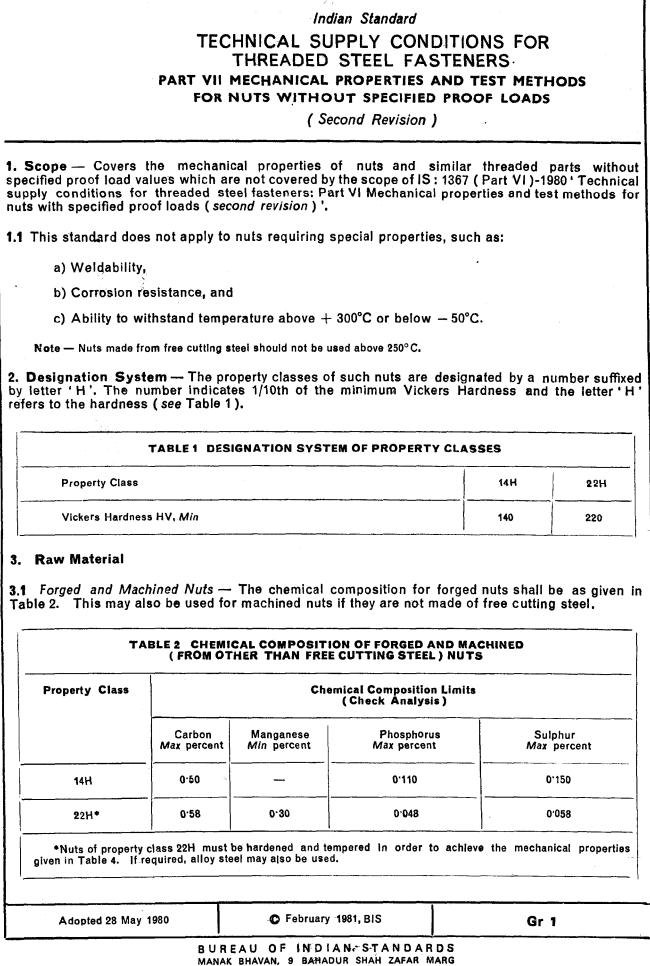
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Bolts, Nuts and Fasteners Accessories Sectional Committee, EDC

(Fourth Reprint FEBRUARY 1991)

IS: 1367 (Part VII) - 1980



NEW DELHI 110002

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3.2 Machined Nuts (with Free Cutting Steel)

TABLE 3 CHEMICAL COMPOSITION FOR NUTS MADE OUT OF FREE CUTTING STEEL

Property Class	Chemical Composition Limits (Check Analysis)			
	Carbon Max percent	Phosphorus <i>Max</i> percent	Lead <i>Max</i> percent	Sulphur <i>Max</i> percent
14H	0.20	0.15	0.32	0.34

4. Mechanical Properties

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TABLE & MECHANICAL DRODEDTIES

Mechanical Properties	Property Class		et hyar
	14H	22H	
Vickers <i>Min</i>	140	220	-
Hardness HV5, <i>Max</i>	220*	353	

260 Max for cold forged nuts.

5. Test Method for Mechanical Properties

5.1 Hardness Test — The Vickers Hardness test shall be carried out in accordance with the provisions of IS: 1501-1968 'Method for Vickers hardness test for steel (*first revision*)'.

EXPLANATORY NOTE

Consequent to the decision to revise IS: 1367-1967 'Technical supply conditions for threaded steel fasteners' due to the work at international level, separate parts have been formulated for technical and drafting reasons alike. The different parts in the revision are listed in Part I Introduction and general information. The requirements for nuts, which are not amenable to proof loading either due to their geometry or application, are covered in this standard.

Although work is yet to be initiated at the international level on nuts without specified proof loads, the need for a national standard on the subject has been felt in view of a large number of nut-like threaded and formed products which are in use. Such products cannot be classified according to definite test loads or loading capacities, but only according to their hardness values. For this reason the minimum hardness has been adopted as the characteristic feature. Maximum values have also been specified to guard against a drop in the transverse toughness due to excessive hardness.

The property classes covered in this standard are applicable for nuts with one or more of the following characteristics:

- a) With nominal heights less than 0.5 d;
- b) With lesser across flats than those specified in IS:9519-1980 'Dimensions for width across flats for hexagon head bolts and nuts ';
- c) With threads other than triangular ISO metric threads;
- d) With nominal thread sizes above M39; and
- e) With special configuration.

The property class designation system based on hardness values is applicable to the type of products covered in the following Indian Standards:

- IS: 3468-1975 Specification for pipe nuts
- IS: 5368-1969 Specification for thin slotted and castle nuts (dia range 6 to 52 mm)

IS:6731-1972 Specification for locknuts, narrow series and lockwashers with straight inner tab for rolling bearings (*first revision*)

IS: 8856-1978 Specification for hexagon weld nuts

While the above Indian Standards presently specify property class 4, 6, 8, etc, the same would be modified in their revisions.

In the preparation of the standard, assistance has been derived from DIN 267 sheet 4-1971 Schrauben, Mutten Und ahuliche Gewinde — und Formterte (Bolts, screws, nuts and similar threaded and formed parts — technical supply conditions of delivery — property classes and test methods for nuts of unalloyed or low alloy steels) issued by Deutsches Institut für Normung (DIN).

AMENDMENT NO. 1 DECEMBER 1984

TO

IS: 1367 (Part VII) - 1980 TECHNICAL SUPPLY CONDITIONS FOR THREADED STEEL FASTENERS

PART VII MECHANICAL PROPERTIES AND TEST METHODS FOR NUTS WITHOUT SPECIFIED PROOF LOADS

(Second Revision)

(Page 1, Table 1) --- Substitute the following for the existing table:

TABLE 1 DESIGNATION SYSTEM OF PROPERTY CLASSES			
Property Class	14 H	17 H	22 H
Vickers hardness, HV, Min	140	170	220

(Page 1, Table 2) — Substitute the following for the existing table:

TABLE 2 CHEMICAL COMPOSITION OF FORGED AND MACHINED (FROM OTHER THAN FREE CUTTING STEEL) NUTS

Property Class	Chemical Composition Limits (Check Analysis)			
	Carbon, Max, porcent	Manganese, <i>Min,</i> percent	Phosphorus Max, percent	Sulphur, Max, percent
1411	0.50		0.110	0.150
17H	0.58	0.30	0.000	0.120
22H*	0.28	0.30	0.048	0.028

*Nuts of property class 22H must be hardened and tempered in order to achieve the mechanical properties given In Table 4. If required, alloy steel may also be used.

(Page 2, Table 3, first column) - Substitute '14H, 17H' for '14H'.

(Page 2, Table 4) — Substitute the following for the existing table:

TABLE 4 MECHANICAL PROPERTIES					
Mechanical	Property Class				
Properties	14H	17H	22H		
Vickers Min	140	170	220		
hardness HV5 Max	220*	250	300		

(Page 2, Explanatory Note, fourth para) - Delete 'IS: 8856-1978 Specification for hexagon weld nuts.'