



CORPORATE STANDARD

AA 715 11 15

Rev. No. 07

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NUTS, HEXAGON, PRODUCT GRADE 'A' COARSE PITCH, STEEL PROPERTY CLASS 8 (M1.6 - M16)

1.0 DESIGNATION:

A product Gr. A hexagon, Steel, nut thread M10 coarse pitch and conforming to property class 8 shall be designated as:

1.1 On drawings:

- i) Material specification column : AA 715 11 15.
- ii) Description column : NUT HEX A M10 - 8.

1.2 On indents:

Nut Hex A M10 – 8: AA 715 11 15.

1.3 For issuing enquiries and on purchase orders:

While issuing enquiries and purchase orders, delete BHEL standard number from the above description and add the information given under clause 2.0.

2.0 COMPLIANCE WITH STANDARDS:

2.1 Dimensions, Tolerances & General Requirements:

As per IS: 1364, Part 3 -2002.

2.2 Mechanical Properties:

To conform to property class 8 as specified in Table-5&6 of IS:1367, Part 6-1994. Permissible Hardness 188 to 330 HB for sizes M3 to M10.

2.3 Threads:

Pitch-coarse to IS:4218, Part 2.
Tolerance quality - Medium.
Tolerance class - 6H.

2.4 Identification Marking :

As stated in clause 9 of IS: 1367, Part.6

2.5 Surface Discontinuity: As per IS:1367, Part.9.

2.6 Finish: Plated as specified in BHEL order.

Revisions :

Cl. 25.7.27 of MOM of WG-F

APPROVED :

INTERPLANT
STANDARDIZATION COMMITTEE (WG-F)

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3.0 NOTE:

3.1 For nuts, hexagon, product Gr.A Coarse pitch, brass (M1.6 -M16) refer to BHEL standard AA 715 11 13.

3.2 For screw threads, general (Metric) refer to BHEL standard AA 023 18 00.

3.3 For tolerance grade, position and class refer to BHEL standard AA 023 02 01.

3.4 Nuts to this standard would be unplated, divisions wishing to have plated nuts would have to get them plated.

3.5 Weights given in this standard are for general reference only and are not for commercial transactions.

3.6 When fasteners are to be tested with in BHEL, the sampling and acceptance as per IS: 1367 part 17.

4.0 REFERRED STANDARDS (Latest publications including amendment):

1) IS: 1364 (Pt.3)	2) IS: 1367 (Pt.6, 9 &17)	3) IS:4218 (Pt.2)
4) AA 023 02 01	5) AA 023 18 00	6) AA 715 11 13

EXPLANATORY NOTE:

The following changes have been made in the present revision:

- New clause 2.5 Surface Discontinuity is added.
- Existing clause 2.5 is renumbered as 2.6.
- Clause 9 of IS:1367 is included in Cl 4.0

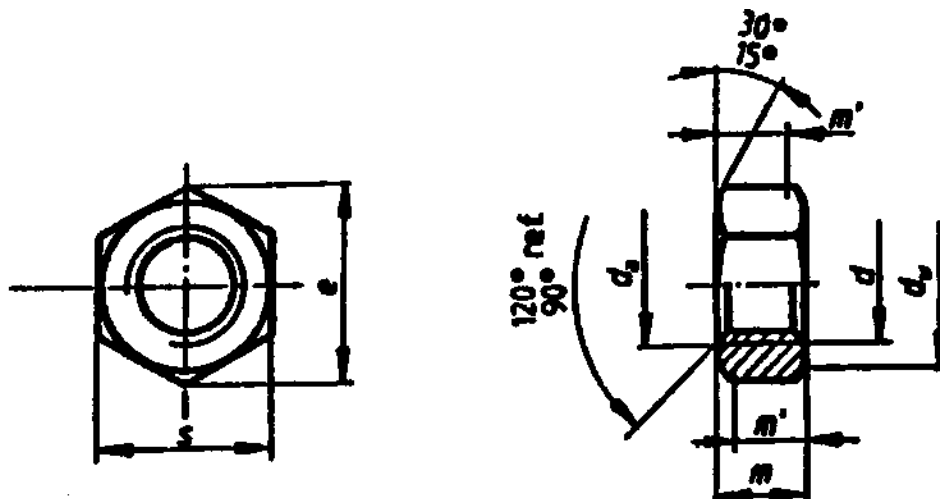


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All dimensions are in mm.

TABLE I

Size d Non.	Flats s		Corners c nun.	Thickness m		Wrenching Height m min	dw min.	da		Sub-code/ Weight
	max.	min.		max.	min.			min.	max.	
M1.6	3.2	3.02	3.41	1.3	1.05	0.8	2.4	1.6	1.84	091/
M2	4.0	3.82	4.32	1.6	1.35	1.1	3.1	2.0	2.3	105/
M2.5	5.0	4.82	5.45	2.0	1.75	1.4	4.1	2.5	2.90	113/
M3	5.5	5.32	6.01	2.40	2.15	1.7	4.6	3.0	3.45	067/0.39
M4	7.0	6.78	7.66	3.2	2.90	2.32	5.90	4.0	4.60	075/0.82
M5	8.0	7.78	8.79	4.7	4.40	3.5	6.90	5.0	5.75	0.83/1.24
M6	10.0	9.78	11.05	5.20	4.90	3.9	8.90	6.0	6.75	016/2.52
M8	13.0	12.73	14.38	6.8	6.44	5.2	11.6	8.0	8.75	024/5.40
M10	16.0	15.73	17.77	8.4	8.04	6.4	14.6	10.0	10.80	032/11.69
M12	18.0	17.73	20.03	10.8	10.37	8.30	16.6	12.0	13.0	040/17.69
M16	24.0	23.67	26.75	14.8	14.10	11.3	22.5	16.0	17.3	059/33.58

Note : 1. Corporate sub code No. only given in the Table.
2. Weights have been shown in kg. per 1000 no.