



## CORPORATE STANDARD

AA 711 11 22

Rev. No. 07

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### **BOLTS, HEXAGON HEAD, PRODUCT GRADE 'A' COARSE PITCH, STEEL PROPERTY CLASS 8.8 (M3 - M16)**

#### **1.0 DESIGNATION:**

A product Gr. A hexagon head, steel bolt of nominal diameter 10mm, length 60 mm, coarse pitch and conforming to property class 8.8 shall be designated as:

#### **1.1 On drawings:**

- i) Material specification column : AA 711 11 22
- ii) Description column : BOLT HEX A M10 X 60 - 8.8.

#### **1.2 On indents:**

Bolt Hex A M10 X 60 - 8.8: AA 711 11 22.

#### **1.3 For issuing enquiries and on purchase orders:**

While issuing enquiries and purchase orders, delete BHEL standard number from 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 1-2002.

##### **2.2 Mechanical properties:**

To conform to property class 8.8, as specified in Table-3 of IS:1367, Part 3-2002.  
Permissible hardness 238-350 HB for sizes M6-M10.

##### **2.3 Threads:**

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

##### **2.4 Identification Marking:**

As stated in clause 9 of IS:1367, Part 3.

##### **2.5 Surface Discontinuity:**

As per IS:1367, Part.9.

##### **2.6 Finish:** Plated as specified in BHEL order.

#### **Revisions :**

Cl. 25.7.02 of MOM of WG-F

#### **APPROVED :**

**INTERPLANT  
STANDARDIZATION COMMITTEE (WG-F)**

Rev. No. 07

Amd.No.

Dt:01.10.2004

Dt :

Year :

Prepared  
HARDWAR

Issued  
Corp. R&D

Dt. of 1st Issue  
January, 1977

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### 3.0 NOTE:

- 3.1 Length and diameter combination (refer Table-1 on page 3 of 3 ) between the bold lines should only be used.
- 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 Bolts to this standard would be unplated, divisions wishing to have plated bolts would have to get them plated.
- 3.5 Weights given in this standard are for general reference only and are not meant for commercial transaction.
- 3.6 For product group Gr:A, hexagon head, steel bolts, property class 8.8 (M20 - M24) refer BHEL standard AA 711 11 24.
- 3.7 When fasteners are to be tested with in BHEL, the sampling and acceptance plan shall be as per IS:1367, part 17.

### 4.0 REFERRED STANDARDS (Latest publications including amendment):

- 1) AA 023 18 00    2) AA 023 02 01    3) IS: 1364, Pt 1    4) IS: 1367, Pt 3, 9 & 17  
5) IS: 4218 (Pt.2)    6) AA 711 11 24

### EXPLANATORY NOTE:

#### The following changes have been made in this revision

- New clause 2.5 Surface discontinuity is added
- Existing Cl 2.5 is renumbered as 2.6.
- In clause 4.0, part 9 of IS:1367 is added.

