

JIS

JAPANESE INDUSTRIAL STANDARD

Hexagon Socket Head Shoulder Screws

JIS B 1175—1988

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by

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In the event of any doubt arising,
the original Standard in Japanese is to be final authority.

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Hexagon Socket Head
Shoulder Screws

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1. Scope

This Japanese Industrial Standard specifies the steel hexagon socket head shoulder screws used generally, hereinafter referred to as the "screws". However, the screws to be used for holding stripper of press dies may be in accordance with JIS B 5064, as required.

Remark: This Standard is based on ISO 7379-1983.

2. Fastener Grade

The fastener grades of screws are in accordance with fastener grade A of threaded fastener for general use specified in JIS B 1021, as appropriate.

3. Mechanical Properties

The mechanical properties of screws shall be in accordance with strength division 12.9 of JIS B 1051.

4. Shape and Dimensions

The shape and dimensions shall be in accordance with Attached Table 1.

Further, dimensions in the case where electroplating is executed shall be dependent upon agreement between the parties concerned on delivery.

5. Screw Threads

The screw threads of screws shall be in accordance with the body of JIS B 0205, and its grade, be 5 g, 6 g ⁽¹⁾ based on JIS B 0215. However, the grade of screw threads, dependent upon agreement between the parties concerned, may be 6 g of the body of JIS B 0209, or grade 2 of Appendix 1 of the same Standard.

Further, the maximum permissible deviation of screw threads executed with electroplating shall be that of 4 h specified in JIS B 0209.

Note ⁽¹⁾ Limits of sizes and tolerances of grade 5 g 6 g are shown in Reference.

Applicable Standards and Corresponding International Standard: See page 10.

6. Geometrical Tolerances

The geometrical tolerances of screws shall be in accordance with Attached Table 2.

7. Appearance

For appearance of screw, the surface roughness of circular cylindrical part shall comply with Attached Table 1 and, in addition, be free from defects such as quenching crack and flaws, burrs, flashes, etc. harmful to use.

Further, the reference for permissible limit of surface defects should, unless specially designated, be in accordance with Reference of JIS B 0101.

8. Materials

The materials of screws shall be in accordance with 3. of the body of JIS B 1051.

9. Surface Treatment

Screws shall, generally, be applied with black oxide coating excepting the circular cylindrical part. However, in cases where surface treatment is not required, and plating and other surface treatments are required, the purchaser shall designate.

Further, the screw applied with electroplating shall be carried out with brittleness removing treatment.

10. Inspection

10.1 Mechanical Property Inspection The mechanical property inspection for screw shall be carried out according to 4. of the body of JIS B 1051, and, satisfy the mechanical properties specified in 3. However, the mechanical properties concerning the tensile test and the head shock strength are not object of inspection.

Further, in the case where specially the inspection for tensile strength is required, it shall be subjected to agreement between the parties concerned.

Remark: For mechanical property inspection at the time of delivery, dependent upon agreement between the parties concerned, a part of test may be omitted by the method to affirm the test result table, and the like.

10.2 Shape and Dimension Inspection The shape and dimension inspection shall be carried out according to the measuring method of each part dimensions of JIS B 1071 or the method instead of this and the results, comply with 4.