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JIS

JAPANESE INDUSTRIAL STANDARD

Steel Forgings—General Technical Requirements

JIS G 0306—1988

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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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Steel Forgings — General Technical Requirements G 0306-1988

1. Scope

This Japanese Industrial Standard specifies the general rules commonly applied to manufacture, tests, and inspections of steel forgings.

Remark: In this Standard, the units and numerical values in { } are in accordance with the International System of Units (SI), and appended herein for reference only.

The conventional units and numerical values in this Standard shall be replaced by those in the SI units which will be effective 1, Jan. 1991.

2. Definitions

The definitions of the main terms used in this Standard shall be as follows:

(1) steel forgings The steel ingots, or steel products manufactured from the steel ingots by means of forging, rolling, or combination of both forging and rolling, which are hot-worked through such process as press, hammer, forging roll, ring mill, etc., and then are generally heat-treated to give specified mechanical properties.

(2) shaft-shaped object The objects such as straight axle, bossed axle, flanged axle, or pinion with axle, which gives circular-shape section, and whose longitudinal length exceeds the outside diameter, or their equivalents. The objects thought to be deformed shaft are contained.

(3) cylinder-shaped object The objects whose forged shape is cylindrical and whose longitudinal length exceeds the outside diameter. The cylinder-shaped forgings require hollow forging, however, which are made cylinder-shape by only punching or mechanical working are excluded.

(4) ring-shaped object The objects whose forged shape is ring and whose longitudinal length is not more than its outside diameter. The ring-shaped forgings require hole-widening forging, however, the ring made by only punching or mechanical working is excluded.

(5) disc-shaped object The objects whose forged shape is disc or the equivalent (including the one having partly irregularity), and whose longitudinal length is not more than its outside diameter. The disc-shaped forgings require upsetting forging as a final process, however, the disc-shaped object made by cutting shaft-shaped material is excluded.

Applicable Standards: See page 26.