

JIS

JAPANESE INDUSTRIAL STANDARD

Ball point pen refills

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S 6039-1995

1. **Scope** This Japanese Industrial Standard specifies the refills for the ball point pen (hereafter referred to as "refills") of the writing mechanism to transcribe ink through turning of a ball, joining an ink cartridge filled with ink to a tip.

Remarks: The following standards are cited in this Standard:

- JIS L 0801 General principles of test methods for colour fastness
- JIS L 0804 Grey scale for assessing change in colour
- JIS L 0841 Testing methods for colour fastness to daylight
- JIS L 0842 Testing methods for colour fastness to carbon arc lamp light
- JIS L 0843 Testing methods for colour fastness to xenon arc lamp light
- JIS P 3201 Writing papers

2. **Definitions** For the purposes of this Standard, the following definitions apply.

- (1) **tip** A metallic end part which consists of a ball and a ball holder having a guide hole, and so constructed that it facilitates smooth turning of the ball in writing and is capable of attaching the ink cartridge to the other end.
- (2) **line-splitting** When writing has been made, a condition in which the line is described in two thin split lines.
- (3) **dripping** When writing has been made, a condition in which the surface of paper is smeared with excessive ink.
- (4) **initial writing** A condition of initial writing of an unused refill.
- (5) **effective writing distance** A distance of a line which has been written in a condition with no remarkable line splitting, when continuously written by the writing tester of 6.1 (3).

3. **Types** The types of the refills shall conform to Tables 1 and 2, according to shapes and dimensions and nominal ball diameters.

Table 1. Types according to shapes and dimensions

Type according to shapes and dimensions	Type symbol
Standard type	G, H, K, L, M
Special type	—