

JIS

JAPANESE INDUSTRIAL STANDARD

**Oil tempered wire
for mechanical springs**

JIS G 3560—1994

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the original Standard in Japanese is to be final authority.

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Oil tempered wire for mechanical springs

G 3560-1994

1. **Scope** This Japanese Industrial Standard specifies the oil tempered wire (hereafter referred to as "wires") used for ordinary mechanical springs.

Remarks 1. The standards cited in this Standard are as follows:

JIS G 0558 Methods of measuring decarburized depth for steel

JIS G 3506 High carbon steel wire rods

JIS K 1310 Hydrochloric acid

JIS Z 2241 Method of tensile test for metallic materials

2. The International standards corresponding to this Standard are given as follows:

ISO 8458-1: 1989 Steel wire for mechanical springs — Part 1: General requirements

ISO 8458-3: 1992 Steel wire for mechanical springs — Part 3: Oil-hardened and tempered wire

2. **Types, symbols and applicable wire diameters** Wires shall be classified into six types and the symbols and applicable wire diameters thereof shall be as given in Table 1.

Table 1. Types, symbols and applicable wire diameters

Type	Symbol	Applicable wire diameter	Summary
Oil tempered carbon steel wire for mechanical springs Class A	SWO-A	2.00 mm or over up to and incl. 12.0 mm	Principally for springs receiving static load
Oil tempered carbon steel wire for mechanical springs Class B	SWO-B		Principally for springs receiving dynamic load
Oil tempered silicon chromium steel wire for mechanical springs	SWOSC-B	1.00 mm or over up to and incl. 15.0 mm	
Oil tempered silicon manganese steel wire for mechanical springs Class A	SWOSM-A	4.00 mm or over up to and incl. 14.0 mm	
Oil tempered silicon manganese steel wire for mechanical springs Class B	SWOSM-B		
Oil tempered silicon manganese steel wire for mechanical springs Class C	SWOSM-C	4.00 mm or over up to and incl. 12.0 mm	