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GB 14981-2009

Replacing GB/T 14981-2004

Dimension, Shape, Mass and Tolerance for Hot-rolled Round Wire Rod

热轧圆盘条尺寸、外形、重量及允许偏差

(ISO 16124:2004, Steel Wire Rod - Dimensions and Tolerances, MOD)

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Foreword

This standard was modified in relation to ISO 16124: 2004 "Steel Wire Rod - Dimensions and Tolerances" (English Edition).

Compared with ISO 16124: 2004, technical differences in this standard are as follows:

- Only the wire rods with circular cross-section were selected and the nominal diameter range was enlarged to 60 mm;
- Technical indexes with nominal diameter of 50 mm~60 mm were added;
- Disk mass requirements were added.

These technical differences have already been marked with perpendicular single line on the margin of relevant clauses.

This standard replaces GB/T 14981-2004 "Dimensions, Shape, Mass and Tolerances for Hot-rolled Wire Rods"; compared with GB/T 14981-2004, the main technical differences are as follows:

- Application scope of wire rod diameter is enlarged (nominal diameter scope is enlarged from original 5 mm~40 mm to 5 mm ~60 mm);
- Corresponding technical requirements on 40 mm ~60 mm were added in Table 1;
- Proper adjustment was made on out-of-roundness of Grade A accuracy in Table 1 to be kept consistent with international standard.
- The term of agreement in Section 2.4 was deleted;
- Only original Group II was maintained among mass groups.

This standard was proposed by China Iron and Steel Association.

This standard shall be under the jurisdiction of National Technical Committee on Iron and Steel of Standardization Administration of China.

Drafting organizations of this standard: Metallurgical Information and Standardization Institute, Jiangsu Shagang Group Co., Ltd, Qingdao Iron and Steel Group Co., Ltd., Maanshan Iron & Steel Co., Ltd, Xuanhua Iron & Steel Group Co., Ltd., Xingtai Iron & Steel Group Co., Ltd., Shougang Group and Sichuan Dazhou Iron & Steel Group Co., Ltd.

Chief drafting staffs of this standard: Wang Lingjun, Dai Shifeng, Huang Zhengyu, Yang Yiming, Liu Yulan, Li Li, Hou Yuehua, Tang Mu and Li Yuanting.

The previous editions replaced by this standard are as follows:

Dimension, Shape, Mass and Tolerance for Hot-rolled Round Wire Rod

1 Scope

This standard specifies dimension, shape, mass and requirements of hot-rolled wire rods, unless otherwise specified in product standard, they shall meet requirements of corresponding product standards.

This standard is applicable to steel round wire rods with nominal diameter of 5 mm~60 mm.

2 Dimension, Shape and Tolerance

2.1 Nominal diameter and nominal cross-sectional area of wire rods are listed in Table 1.

2.2 Diameter tolerance of wire rods shall meet the requirements of corresponding grade accuracy in Table 1 and the out-of-roundness shall be less than or equal to 80% of corresponding grade of diameter tolerance.

2.3 Accuracy grade shall be indicated in corresponding product standard or contract and any accuracy grade which is not indicated shall be implemented according to Grade A accuracy.

2.4 As required by the Purchaser, upon the agreement between the Supplier and the Purchaser, other dimensions and tolerances may be adopted, but tolerances shall be not greater than specified value of corresponding specification in Table 1.

Table 1

Nominal diameter/mm	Tolerance/mm			Out-of-roundness/mm			Cross-sectional area /mm ²	Theoretical mass/ (kg/m)
	Grade A accuracy	Grade B accuracy	Grade C accuracy	Grade A accuracy	Grade B accuracy	Grade C accuracy		
5	±0.30	±0.25	±0.15	≤0.48	≤0.40	≤0.24	19.63	0.154
5.5							23.76	0.187
6							28.27	0.222
6.5							33.18	0.260
7							38.48	0.302
7.5							44.18	0.347
8							50.26	0.395
8.5							56.74	0.445

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Contact: Wayne Zheng, Sales@ChineseStandard.net

Linkin: <https://www.linkedin.com/in/waynezhengwenrui/>

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