



भारतीय मानक ब्यूरो

(उपभोक्ता मामले, खाद्य एवं सार्वजनिक वितरण मंत्रालय, भारत सरकार)

**BUREAU OF INDIAN STANDARDS**

(Ministry of Consumer Affairs, Food & Public Distribution, Govt. of India)

मानक भवन, 9 बहादुरशाह जफर मार्ग नई, दिल्ली-110002

Manak Bhavan, 9 Bahadur Shah Zafar Marg, New Delhi-110002

Phones: 23230131 / 23233375 / 23239402

Website: www.bis.org.in, www.bis.gov.in

## Review Document

### Basic Details

1.	Sectional Committee No. & Title:	MTD 4 - Wrought Steel Products Sectional Committee
2.	IS No :	IS 2255 : 1977
3.	Title :	Specification for mild steel wire rod for the manufacture of machine screws (By Cold Heading Process) (Second Revision)
4.	Date of Previous Review:	March, 2022

### Review Analysis

#### 5.1 Status of standard(s), if any from which assistance had been drawn in the formulation of this IS.

S.No.	Standard (No.)	Standard (Title)	Whether the standard has since been revised	Major changes	Action proposed
1	Nil	Nil	Nil	Nil	Nil

#### 5.2 Status of standard referred in the IS.

S.No.	Referred standards (No.)	Referred standards (Title)	Since revised IS no. of the corresponding IS	Changes in the referred Standards since last review of IS	Changes in the referred standard which are affecting the standard under review	Action proposed
1	IS 1673 : 1984	Specification for mild steel wire, cold heading quality (Second Revision)	IS 1673:1984 2nd revision Reaffirmation year- 2021	Will not impact standard under review	Nil	Correction in Cl. 1.1 of IS 2255:1977 Reference of IS 1673:1984 shall made.
2	IS 1387:1967	General requirements for the supply of Metallurgical Materials	IS 1387:1993	Will not impact standard under review	Nil	Correction in Cl. 3 of IS 2255:1977 Reference of IS 1387:1993 shall made

**5.3 Any other standards available related to the subject & scope of the standard being reviewed (International/regional/other national/association/consortia, etc or of new or revision of existing Indian Standard).**

S.No.	Standard (No.)	Standard (Title)	Provisions that could be relevant while reviewing the IS	Action proposed
1	JIS G-3507-1	Carbon steels for cold heading- part 1 wire rod	1. Chemical composition mentioned in Table 2 of JIS G-3507-1	1. For Rimming steel- Si- As per agreement between purchaser and supplier, For Aluminium Killed Steel- Si- 0.1 percent maximum, For Killed steel- Si- 0.10-0.35 percent ,Inclusion of Si is proposed in chemical requirement.

**5.4 Technical comments on the standard received, if any.**

S.No.	Source	Clause of IS	Comment	Action proposed
No entry made in this table				

**5.5 Information available on relevant technical developments**

S.No.	Source	Development	Relevant clause of the IS under review that is likely to be impacted (Clause & IS No.)	Action proposed
1	BIS Licensee	Nil	Nil	Nil

**5.6 Issues arising out of changes in any related IS or due to formulation of new Indian Standard.**

S.No.	Related IS (revised or new)	Related IS Title	Provision in the IS under review that would be impacted & the clause no. or addition of new clause/provision	Changes that may be necessary in the Standards under review	Action proposed
No entry made in this table					

**5.7 Any consequential changes to be considered in other IS.**

S.No.	Related IS to get impacted	Related IS Title	Requirements to be impacted
No entry made in this table			

**Other Details**

6.	Any other observation:	<p>Similar International standard were studied closely. JIS G-3507-1 ISO 4594:2022 1. Steels are classified in different grades of rimming and killed steels in international standards while similar grading is absent in IS 2255:1977. 2. Chemical composition is specified for each of the grades in international standard while such a wide variety of composition is absent in IS 2255:1977. 3. Reference of Physical properties like decarburization depth, austenitic grain size and Non- metallic inclusion is given in international standard which is absent in IS 2255:1977. 4. Reference of Metallographic test, Decarburization depth, Austenite grain size test, Non- Metallic inclusion test and Surface flaw detection test is given in international standard which is absent in IS 2255:1977. 5. Undersigned has contacted many wire rod manufacturers based in Punjab. They are making IS 7887:1992 which is being supplied in fastener industries and also used in making machine screws, nails etc Industries Contacted - Allied Recycling Limited, Ludhiana Vittal Steel Bars LLP, Punjab Saeco strips pvt ltd, Punjab Usha Martin, Hoshiarpur Tech man industries, Panchkula</p>
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7.	Upload Supporting Document(s)					
<table border="1"> <tr> <td data-bbox="137 210 625 273"><b>7.1 ARP Report</b></td> <td data-bbox="625 210 1458 273"><a href="#">70_8771_220730015735_ARP_Report.pdf</a></td> </tr> <tr> <td data-bbox="137 273 625 336"><b>7.2 Draft Document</b></td> <td data-bbox="625 273 1458 336" style="text-align: center;"><b>No Document Uploaded</b></td> </tr> </table>			<b>7.1 ARP Report</b>	<a href="#">70_8771_220730015735_ARP_Report.pdf</a>	<b>7.2 Draft Document</b>	<b>No Document Uploaded</b>
<b>7.1 ARP Report</b>	<a href="#">70_8771_220730015735_ARP_Report.pdf</a>					
<b>7.2 Draft Document</b>	<b>No Document Uploaded</b>					
8.	<p>Recommendations - On the basis of the analysis of the info available as mentioned above consideration of sectional committee is solicited on the following aspects of the IS under review:</p>	<table border="1"> <tr> <td data-bbox="820 387 1458 544"> <p>1. Changes in referred standards is mentioned above under point no.2. 2. Addition of specification of Silicon as specified in international standards is proposed above under point no.3. 3. Keeping SDG in consideration addition of Green source of energy for manufacturing of steels may be proposed under Manufacturing Cl. 4.1.</p> </td> </tr> </table>	<p>1. Changes in referred standards is mentioned above under point no.2. 2. Addition of specification of Silicon as specified in international standards is proposed above under point no.3. 3. Keeping SDG in consideration addition of Green source of energy for manufacturing of steels may be proposed under Manufacturing Cl. 4.1.</p>			
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