



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)

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Review Document

Basic Details

1.	Sectional Committee No. & Title:	MTD 16 - Alloy Steels and Forging Sectional Committee
2.	IS No :	IS 3930 : 1994
3.	Title :	Flame and induction hardening steels - Specification (Second Revision)
4.	Date of Previous Review:	April, 2019

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	NA	NA	NA	NA

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 8910:1978	General technical delivery requirements for steel and steel product	IS 8910:2022/ISO 404:2013	Year of the Standard along with adoption of ISO	This Standard was first published in 1978 and subsequently revised in 2010 for aligning it with ISO 404 :1992. The second revision of this standard has been undertaken to align it with the latest version of ISO 404 : 2013	Reference to be corrected at all the places.
2	IS 10138(part3):1983	Macroscopic method for determination of non-metallic inclusion content in wrought steel: Part 3 Magnetic particle inspection method	IS 10138 : 2010	Title, scope and year have been changed	All 3 ISS merged	Reference to be corrected at all the places.
3	IS 10138(part2):1983	Macroscopic method for determination of non-metallic inclusion content in wrought steel: Part 2 Step machined test method IS 10138(part3):1983	IS 10138 : 2010	Title, scope and year have been changed	All 3 ISS merged	Reference to be corrected at all the places.
4	IS 10138(part1):1992	Macroscopic method for determination of non-metallic inclusion content in wrought steel: Part 1 Blue fracture test method (first revision)	IS 10138 : 2010	Title, scope and year have been changed	Title, scope and year have been changed	Reference to be corrected at all the places.
5	IS 11371 : 1985	Method for macro-etch test of wrought steel products	IS 11371 : 2022	Title, scope and year have been changed	Title, scope and year have been changed	Reference to be corrected at all the places.
6	IS 4163:1982	Method for determination of inclusion content in steel by macroscopic method (first revision)	IS 4163 : 2021/ISO 4967:2013	Title, scope and year have been changed. It is identical to ISO 4967:2013	Title, scope and year have been changed. It is identical to ISO 4967:2013	Reference to be corrected at all the places.
7	IS 3711:1966	Selection and preparation of samples and test pieces for mechanical test for wrought steel	IS 3711 : 2020/ISO 377 : 2017	Title and year have been changed. It is identical to ISO 377 : 2017	Title and year have been changed. It is identical to ISO 377 : 2017	Reference to be corrected at all the places.
8	IS 4748:1988	Method of estimating average grain size (first revision)	IS 4748 : 2021/ISO 643:2012	Title and year have been changed. It is identical to ISO 643:2012	Title and year have been changed. It is identical to ISO 643:2012	Reference to be corrected at all the places.
9	IS 1608:1972	Tensile testing of steel products (first revision)	IS 1608 (Part 1) : 2022/ISO 6892-1 : 2019	Title, scope and year have been changed. It is identical to ISO 6892-1 : 2019	Title, scope and year have been changed. It is identical to ISO 6892-1 : 2019	Reference to be corrected at all the places.
10	IS 1500:1983	Brinell hardness test for metallic materials (second revision)	IS 1500 (part1):2019/ISO 6506-1:2014	Title, scope and year have been changed ,Also now it is identical with ISO 6506-1 : 2014.	Title, scope and year have been changed ,Also now it is identical with ISO 6506-1 : 2014.	Reference to be corrected at all the places.

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	ISO 683 part 2:2016	Heat-treatable steels, alloy steels and free-cutting steels Part 2: Alloy steels for quenching and tempering	Table 3 for grades	May include relevant grades /clauses .

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	NA	NA

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
1	IS 10490-1983	Specification for breech loading shot guns, single and double barrel	Flame and induction hardening steels grades are One of the recommended materials for components /parts referred in these ISS
2	IS 5500 : Part 2-2004	Vibratory roller - General requirements: Part 2 self - Propelled single drum (Third Revision)	Flame and induction hardening steels grades are One of the recommended materials for components /parts referred in these ISS
3	IS 10571-1983	Specification for split taper sockets for tools with parallel shank, driving square and driving tenon	Flame and induction hardening steels grades are One of the recommended materials for components /parts referred in these ISS
4	IS 10514-1983	Specification for split taper socket for tools with parallel shank and driving tenon	Flame and induction hardening steels grades are One of the recommended materials for components /parts referred in these ISS
5	IS 10491-1983	Specification for muzzle loading shot guns, single and double barrel	Flame and induction hardening steels grades are One of the recommended materials for components /parts referred in these ISS

Other Details		
6.	Any other observation:	nil
7.	Upload Supporting Document(s)	
	7.1 ARP Report	70_10521_231126032617_ARP_Report.docx
	7.2 Draft Document	70_10521_231126032628_Draft_Document.docx
8.	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:	<div style="border: 1px solid black; padding: 5px;"> <p>The Standard may be revised /amended incorporating following changes: a) Relevent clauses from ISO 683 part2 2016 may be adopted /referred b) References may be updated in the Indian Standard</p> </div>