



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 5489 : 1975
3.	Title :	Specification for carburizing steels for use in bearing industry (First 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	None	None	None	None	None

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 228 (various parts)	Method of chemical analysis of steels	IS 228 (various parts)	No Change	No Change	NA
2	IS 4748: 2009/ISO 643: 2003	Steel — Micrographic determination of the apparent grain size (second revision)	IS 4748: 2009/ISO 643: 2003	No Change	No Change	NA
3	IS 4163: 2004/ ISO 4967: 1998	Steel — Determination of content of non-metallic inclusions Micrographic method using standard diagrams	IS 4163: 2004/ ISO 4967: 1998	No Change	No Change	NA
4	IS 3739: 1987	Dimension tolerances for carbon and alloy constructional steel (first revision)	IS 3739: 1987	No Change	No Change	NA
5	IS 1762 (Part 1): 1974	Code for designation of steels: Part 1 Based on letter symbols (first revision) symbols (first revision)	IS 1762 (Part 1): 1974	No Change	No Change	NA
6	IS 1500 (Part 1): 2019/ISO 6506-1: 2014	Metallic materials -Brinell hardness test: Part 1 Test method	IS 1500 (Part 1): 2019/ISO 6506-1: 2014	No Change	No Change	NA
7	IS 1387:1993	General requirements for the supply of metallurgical materials (second revision)	IS 1387:1993	No Change	No Change	NA

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 683-17 : 2014	Heat-Treated Steels, Alloy Steels and Free-Cutting Steels - Ball and Roller Bearing Steels	This standard was adopted by MTD16 as IS 17111: 2019	None

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
No entry made in this table				

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:

7. Upload Supporting Document(s)

7.1 ARP Report

[ARP Report Final_SP.pdf](#)

7.2 Draft Document

No Document Uploaded

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:

Based on the comments received from the bearing manufacturers and committee members following may be considered: a) IS 5489: 1975 may be superseded by IS 17111: 2019/ ISO 683-17: 2014 b) IS 5489: 1975 may be withdrawn c) The observation of ARP may be put up to the concerned sectional committee i.e. MTD-16 for further discussion.