



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:	TED 7 - Automotive Tyres, Tubes And Rims
2.	IS No :	IS 13531 : 2005
3.	Title :	Automotive tyres - Tyre - Retreading materials for mould cure process (First Revision)
4.	Date of Previous Review:	July, 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	N/A	-	N/A		

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 3400 (Part 1) : 1987	Methods of test for vulcanized rubber: Part 1 determination of tensile stress - Strain properties	IS 3400 (Part 1) : 2021/ISO 37 : 2017 This standard was first published in 1965 and subsequently revised in 1977, 1987 and 2012. The third revision was carried out to align it with the latest published International Standard on the subject. The fourth revision of this standard has been undertaken to align it with the latest version of ISO 37 : 2017.			Reference should be changed to IS 3400 (Part 1) : 2021/ISO 37 : 2017
2	IS 4518 (Part 1): 1967	Methods of test for styrenebutadiene rubbers (SBR): Part 1 Determination of volatile matter,total ash, organic acid, soap, antioxidants, bound styrene and Mooney viscosity	No revision has been made since ever.			No action has been proposed.
3	IS 5599: 1999	Rubber Raw Natural and synthetic Methods for sampling and sample preparation (fwrst revision)	No revision has been made since ever.			No action has been proposed.
4	IS 3400 (Part 17) : 1974	Methods of test for vulcanized rubbers: Part 17 tear strength - Angular test piece	This standard has been withdrawn and superseded by IS 3400 (Part 12) : 2022/ISO 34-1:2015 Methods of test for vulcanized rubbers: Part 12 Tear strength-crescent test piece First Revision This Indian Standard was originally published in 1971 by taking assistance from ISO/R 34. The first revision of this standard has been undertaken to align it with the latest version of ISO 34-1: 2015. This standard supersedes the IS 3400 (Part 17): 1974			Reference should be changed to IS 3400 (Part 12) : 2022/ISO 34-1:2015
5	IS 3400 (Part 22) : 1984	Methods of test for vulcanized rubber: Part 22 chemical analysis	No revision has been made since ever.			No action has been proposed.
6	IS 3400 (Part 2) : 1995	Methods of test for vulcanized rubber: Part 2 Rubber, vulcanized or thermoplastic Determination of hardness (Hardness between 10 IRHD and 100 IRHD)	IS 3400 (Part 2) : 2014 has been withdrawn and superseded by IS 3400 (Part 2/Sec 2) : 2023/ ISO 48-2 : 2018 This standard was first published in 1965 and revised in 1980 which included the testing of thin pieces of rubber by a scaled-down version (micro-test) of the normal test piece. In second revision, in 1995, the hardness test specified was intended to provide a rapid measurement of rubber stiffness, unlike hardness test on other materials which measure resistance to permanent deformation. In 2003, the committee decided for third revision of this standard to completely align with ISO 48 : 1994. In 2014, the fourth revision was carried out to align it with ISO 48-2010, the latest published International Standard on the subject. Earlier, three Indian Standards, namely IS 3400 (Part 2) : 2014/ISO 48 : 2010 Methods of test for vulcanized rubber: Part 2 Rubber vulcanized or thermoplastic Determination of hardness (hardness between 10 IRHD and 100 IRHD) (fourth revision) IS 3400 (Part 23/Sec 1) : 2018/ISO 7619-1 : 2010 Methods of test for vulcanized rubbers: Part 23 Rubber Determination of indentation hardness by means of pocket hardness meters, Sec 1 Durometer method (Shore hardness) (First Revision) and IS 3400 (Part 23/Sec 2) : 2018/ISO 7619-2 : 2010 Methods of test for vulcanized rubbers: Part 23 Rubber Determination of indentation hardness by means of pocket hardness meters, Sec 2 IRHD pocket meter method (first revision) were published for the determination of hardness under dual numbering system.			Reference should be changed to IS 3400 (Part 2/Sec 2) : 2023/ ISO 48-2 : 2018
7	IS 3400 (Part 3): 1987	Methods of test for vulcanized rubber: Abrasion resistance using a rotating cylindrical drum device(fist revision)	IS 3400 (Part 3): 2021/ISO 4649: 2017 Methods of Test for Vulcanized Rubber - Part 3 Abrasion Resistance using a Rotating Cylindrical Drum Device (Third Revision) This standard was originally published in 1965 and subsequently revised in 1987 and 2018. The first revision of standard was based on ISO 4649 : 1985. The second revision of this standard was undertaken to align it with the latest version of ISO 4649 : 2010. The third revision of this standard has been undertaken to align it with the latest version of ISO 4659 : 2017.			Reference should be changed to IS IS 3400 (Part 3): 2021/ISO 4649: 2017
8	IS 3400 (Part 8) : 1983	Methods of test for vulcanized rubbers: Part 8 resistance to crack - Growth (First Revision)	This standard has been withdrawn and superseded by IS 3400 (Part 7) : 2021/ISO 132 : 2017 Methods of Test for Vulcanized Rubber Part 7 Determination of Flex Cracking and Crack Growth (De Mattia) (Second Revision)			Reference should be changed to IS 3400 (Part 7) : 2021/ISO 132 : 2017
9	IS 3400 (Part 9) : 1978	Methods of test for vulcanized rubbers: Density (first revision)	IS 3400 (Part 9) : 2020/ISO 2781 : 2018 This Indian Standard was originally published in 1967 and subsequently revised in 1978 and 2014. This standard was first published by taking assistance from ISO 2781 : 1975 Determination of density of vulcanized rubbers. In the first revision, determination was made by observation of gravitational forces under different conditions, but for convenience, these forces were expressed in mass units. The Committee, therefore, decided to revise this standard to completely align with ISO 2781 : 1988. The third revision was carried out to align it with the latest published International Standard on the subject. The fourth revision of this standard has been undertaken to align it with the latest version of ISO 2781 : 2018.			Reference should be changed to IS 3400 (Part 9) : 2020/ISO 2781 : 2018

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
No entry made in this table				

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:	In 43rd meeting, committee decided to reaffirm the standard.
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7.	Upload Supporting Document(s)
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7.1 ARP Report	67_5187_241007105834_ARP_Report.docx
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:	As decided by committee in 43rd meeting of TED 7
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