



# 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 2 - Automotive Primemovers, Transmission Systems and Internal Combustion Engine
2.	IS No.:	IS 10533 : 1983
3.	Title :	Specification for valve guides for internal combustion engines
4.	Date of Previous Review:	September, 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
No entry made in this table					

##### 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 210	Grey iron castings	YES	Nil	NA inview of recommendation	NA inview of recommendation
2	IS 7754	Microstructure of Cast Irons	Yes IS 7754 : 2022 ISO 945-1:2019	NA inview of recommendation	NA inview of recommendation	NA inview of recommendation

##### 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 7967:Part 3	internal Combustion engines Vocabulary of components and systems Part 3: Valves, camshaft drives and actuating mechanisms	All Provisions	Adoption of ISO 7967:Part 3

**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)	

<b>7.1 ARP Report</b>	<a href="#">67_1370_231130085804_ARP_Report.pdf</a>
<b>7.2 Draft Document</b>	No Document Uploaded

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>	<p>Since its publication in 1982, the standard IS 10533:1983 has remained static amidst significant technological advancements in the field of Internal Combustion Engines. Over time, this sector has witnessed remarkable progress, particularly in valve guide designs. However, the existing standard only delineates two types of valve guides, thereby constraining innovation. As a result, many manufacturers have developed their own diverse and more advanced designs for valve guides, rendering the standard somewhat outdated and limited in its applicability. Therefore, it is recommended that IS 10533:1983 be considered for withdrawal due to its lack of accommodation for the advancements in valve guide technology. Instead, adopting the ISO 7967:2022 series, which encompasses a more comprehensive and updated framework, would facilitate a more inclusive and progressive approach towards standardizing valve guide specifications within the realm of Internal Combustion Engines</p>
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