BUREAU OF INDIAN STANDARDS

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भारतीय मानक मसौदा

सर्जरी के लिए प्रत्यारोपण — दो-भाग एडिशन-क्योर सिलिकॉन इलास्टोमर्स

Draft Indian Standard

Implants for Surgery — Two-part Addition-cure Silicone Elastomers

ICS 11.040.40

Orthopaedic Instruments, Implants and Last date for comments: 22 August 2024 Accessories Sectional Committee, MHD 02

NATIONAL FOREWORD

(Adoption clause will be added later)

The text of ISO Standard has been approved as suitable for publication as an Indian Standard without deviations. Certain terminologies and conventions are, however, not identical to those used in Indian Standards. Attention is particularly drawn to the following:

- a) Wherever the words 'International Standard' appear referring to this standard, they should be read as 'Indian Standard'.
- b) Comma (,) has been used as a decimal marker, while in Indian Standards, the current practice is to use a point (.) as the decimal marker.

In this adopted standard, reference appears to certain International Standards for which Indian Standards also exist. The corresponding Indian Standards, which are to be substituted in their places, are listed below along with their degree of equivalence for the editions indicated:

International standard	Corresponding indian standard	Degree of equivalence
ISO 34-1:1994, Rubber, vulcanized or thermoplastic —	IS 3400 (Part 12) : 2022 Methods of test for vulcanized	Modified

Doc: MHD02(25944)WC July 2024

determination of tear strength —	rubbers: Part 12 tear strength-	
part 1: trouser, angle and crescent	crescent test piece first revision	
test pieces		
ISO 48:1994, Rubber, vulcanized	IS 3400 (Part 2) : 2023	Modified
or thermoplastic — determination	Methods of test for rubber,	
of hardness (hardness between 10	vulcanized or thermoplastic Part	
IRHD and 100 IRHD)	2 determination of hardness	
	section 2 hardness between 10	
	irhd and 100 irhd (fifth revision)	
ISO 527-2:1993, Plastics —	IS 13360 (Part 5/Sec 2) : 2017	Modified
determination of tensile	Plastics - methods of testing: Part	
properties — Part 2: test	5 mechanical properties section 2	
conditions for moulding and	determination of tensile	
extrusion plastics	properties - test conditions for	
-	moulding and extrusion plastics	
	(first revision)	
ISO 3417:1991, Rubber —	IS 11720 (Part 2) : 2013	Modified
measurement of vulcanization	ISO 3417 :2008	
characteristics with the	Methods of test for synthetic	
oscillating disc curemeter	rubber: Part 2 measurement of	
e	vulcanization characteristics with	
	the oscillating disc curemeter	
	(second revision)	
ISO 6502:1999, Rubber — guide	IS 16848 : 2018	Modified
to the use of curemeters	Rubber - guide to the use of	
	curemeters	
ISO 10993-1:1997, Biological	IS 17932 (Part 1) : 2023	Modified
evaluation of medical devices —	Biological evaluation of medical	i i o anno a
Part 1: evaluation and testing	devices Part 1: evaluation and	
	testing within a risk management	
	process (ISO 10993-1 : 2018,	
	MOD)	
ISO 10993-5:1999, Biological	IS/ISO 10993-5 : 2009	Modified
evaluation of medical devices —	Biological evaluation of medical	woulled
Part 5: tests for in vitro	devices Part 5 tests for in vitro	
cytotoxicity	cytotoxicity	
Cytotoxicity	cytotoxicity	

For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated expressing the result of a test or analysis, shall be rounded off in accordance with IS 2: 2022 'Rules for rounding off numerical values (Second Revision)'.

Note: The technical content of the document has not been included as it is identical with the corresponding ISO standard. For details, please refer to ISO 14949 : 2001 or kindly contact:

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SCOPE

This International Standard specifies the characteristics of, and corresponding test methods for, the two-part addition-cure high consistency or liquid silicone elastomer for use in the manufacture (partially or totally) of surgical implants.