

INDEX TO
STEEL DESIGNATIONS

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BUREAU OF INDIAN STANDARDS
MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG
NEW DELHI 110002

INDEX TO STEEL DESIGNATIONS

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INDEX TO STEEL DESIGNATIONS

0. FOREWORD

0.1 This Index to steel designations has been brought out to facilitate the users and manufacturers in using the new system of steel designation given in IS:1762 (Part I)-1974*.

0.2 For the purpose, the steels have been grouped into the following six schedules as given in IS:1570-1961†.

Schedule I — Steels specified by tensile properties but without detailed chemical composition

Schedule II — Carbon steels with specified chemical composition and related mechanical properties

Schedule III — Carbon and carbon manganese free cutting steels with specified chemical composition and related mechanical properties

Schedule IV — Alloy steels other than stainless and heat resisting steels with specified chemical composition and related mechanical properties

Schedule V — High alloy steels, stainless and heat resisting steels‡

Schedule VI — Carbon and alloy tool steels

0.2.1 A number of Indian Standards cover grades of steel which are not included in IS:1570-1961†. The corresponding new designations for these steels are listed in Appendix A. A list of referred standards is included in Appendix B.

1. SCOPE

1.1 This index gives the new steel designations in accordance with IS:1762 (Part I)-1974* corresponding to the old designations given in IS:1570-1961†.

*Code for designation of steel: Part I Based on letter symbols (*first revision*).

†Schedules for wrought steels for general engineering purposes.

‡Printed separately as IS:1570 (Part V)-1972.

**SCHEDULE I STEELS SPECIFIED BY TENSILE PROPERTIES
BUT WITHOUT DETAILED CHEMICAL COMPOSITION**

NEW DESIGNATIONS	OLD DESIGNATIONS
(1)	(2)
Fe 290	St 30
Fe 310	St 32
Fe 330	St 34
Fe 360	St 37
Fe 380	St 39
Fe 410	St 42
Fe 430	St 44
Fe 460	St 47
Fe 490	St 50
Fe 510	St 52
Fe 540	St 55
Fe 570	St 58
Fe 620	St 63
Fe 650	St 66
Fe 770	St 78
Fe 860	St 88

**SCHEDULE II CARBON STEELS
WITH SPECIFIED CHEMICAL
COMPOSITION AND RELATED
MECHANICAL PROPERTIES**

NEW DESIGNATIONS	OLD DESIGNATIONS
(1)	(2)
4C2	C04
5C4	C05
7C4	C07
10C4	C10
14C6	C14
15C4	C15
15C8	C15Mn <u>75</u>
20C8	C20
25C4	C25
25C8	C25Mn <u>75</u>
30C8	C30
35C4	C35
35C8	C35Mn <u>75</u>
40C8	C40
45C8	C45
50C8	C50
50C12	C50Mn1
55C6	C55
55C8	C55Mn <u>75</u>
60C6	C60
65C6	C65
70C6	C70
75C6	C75
80C6	C80
85C6	C85
98C6	C98
113C6	C113

**SCHEDULE III CARBON AND
CARBON - MANGANESE FREE
CUTTING STEELS WITH
SPECIFIED CHEMICAL
COMPOSITION AND RELATED
MECHANICAL PROPERTIES**

NEW DESIGNATIONS	OLD DESIGNATIONS
(1)	(2)
10C8S10	10S <u>11</u>
14C14S14	14Mn1S <u>14</u>
25C12S14	25Mn1S <u>14</u>
40C10S18	40S <u>18</u>
13C10S25	13S <u>25</u>
40C15S12	40Mn2S <u>12</u>

**SCHEDULE IV ALLOY STEELS (OTHER THAN STAINLESS
AND HEAT RESISTING STEELS) WITH SPECIFIED
CHEMICAL COMPOSITION AND RELATED
MECHANICAL PROPERTIES**

NEW DESIGNATIONS	OLD DESIGNATIONS	NEW DESIGNATIONS	OLD DESIGNATIONS
(1)	(2)	(1)	(2)
36Si7	37Si2Mn ⁹⁰	15Cr4Mo6	15Cr ⁹⁰ Mo ⁵⁵
55Si7	55Si2Mn ⁹⁰	40Cr5Mo6	40Cr1Mo ⁶⁰
11C15	11Mn2	10Cr9Mo10	10Cr2Mo1
20C15	20Mn2	15Cr13Mo6	15Cr3Mo ⁵⁵
27C15	27Mn2	25Cr13Mo6	25Cr3Mo ⁵⁵
37C15	37Mn2	10Cr20Mo6	10Cr5Mo ⁵⁵
47C15	47Mn2	20Cr20Mo6	20Cr5Mo ⁵⁵
35Mn6Mo3	35Mn2Mo ²⁸	35Cr5Mo6V2	35Cr1Mo ⁶⁵ V ²⁵
35Mn6Mo4	35Mn2Mo ⁴⁵	40Cr13Mo10V2	40Cr3Mo1V ²⁰
10Mo6	10Mo ⁵⁵	40Cr7Al10Mo2	40Cr2Al1Mo ¹⁸
20Mo6	20Mo ⁵⁵	40Ni14	40Ni3
32Mo6	33Mo ⁵⁵	16Ni3Cr2	16Ni ⁸⁰ Cr ⁶⁰
15Cr3	15Cr ⁶⁵	16Ni4Cr3	16Ni1Cr ⁸⁰
16Mn5Cr4	17Mn1Cr ⁹⁵	13Ni13Cr3	13Ni3Cr ⁸⁰
20MnCr5	20MnCr1	15Ni16Cr5	15Ni4Cr1
55Cr3	55Cr ⁷⁰	35Ni5Cr2	35Ni1Cr ⁶⁰
40Cr4	40Cr1	30Ni16Cr5	30Ni4Cr1
50Cr4	50Cr1	15Ni5Cr4Mo1	15NiCr1Mo ¹²
102Cr4	103Cr1	15Ni7Cr4Mo2	15Ni2Cr1Mo ¹⁵
102Cr6	103Cr2	40Ni6Cr4Mo2	40NiCr1Mo ¹⁵
105Cr5	105Cr1Mn ⁶⁰	40Ni6Cr4Mo3	40Ni2Cr1Mo ²⁸
50Cr4V2	50Cr1V ²³	31Ni10Cr3Mo6	31Ni3Cr ⁶⁵ Mo ⁵⁵
21Cr4Mo3	21Cr1Mo ²⁸	40Ni10Cr3Mo6	40Ni3Cr ⁶⁵ Mo ⁵⁵
40Cr4Mo3	40Cr1Mo ²⁸	16Ni8Cr6Mo2	16NiCr2Mo ²⁰
07Cr4Mo6	07Cr ⁹⁰ Mo ⁵⁵	20Ni7Mo2	20Ni2Mo ²⁵
		20NiCrMo2	20Ni ⁵⁵ Cr ⁵⁰ Mo ²⁰

**SCHEDULE V HIGH ALLOY
STEELS STAINLESS AND HEAT
RESISTING STEELS**

NEW DESIGNATIONS	OLD DESIGNATIONS
(1)	(2)
X04Cr13	04Cr13
X12Cr13	12Cr13
X20Cr13	20Cr13
X30Cr13	30Cr13
X40Cr13	40Cr13
X05Cr17	05Cr17
X15Cr16Ni2	15Cr16Ni2
X105Cr18Mo	105Cr18Mo <u>50</u>
X02Cr18Ni11	02Cr18Ni11
X04Cr18Ni11	04Cr18Ni11
X07Cr18Ni9	07Cr18Ni9
X10Cr17Ni7	10Cr17Ni7
X04Cr18Ni10Ti	04Cr18Ni10Ti <u>20</u>
X04Cr18Ni10Nb	04Cr18Ni10Nb <u>40</u>
X04Cr17Ni12Mo2	04Cr17Ni12Mo2
X02Cr17Ni12Mo2	02Cr17Ni12Mo2
X04Cr17Ni12Mo2	04Cr17Ni12Mo2Ti <u>20</u>
X10Cr17Mn6Ni4N	10Cr17Mn6Ni4N <u>20</u>
X15Cr25N	15Cr25N
X15Cr24Ni13	15Cr25Ni13
X20Cr25Ni20	20Cr25Ni20
X45Cr8Si4	45Cr9Si4
X80Cr20Si2Ni1	80Cr20Si2Ni1

**SCHEDULE VI CARBON AND
ALLOY TOOL STEELS**

NEW DESIGNATIONS	OLD DESIGNATIONS
(1)	(2)
50T8	T50
55T8	T55
60T6	T60
65T6	T65
70T6	T70Mn <u>65</u>
75T6	T75
80T6	T80Mn <u>65</u>
85T6	T85
70T3	T70
80T3	T80
90T3	T90
102T3	T103
118T3	T118
132T3	T133
T80V2	T80V <u>23</u>
T90V2	T90V <u>23</u>
T102V2	T103V <u>23</u>
T118Cr2V2	T118Cr <u>45</u>
T132Cr2V2	T133Cr <u>45</u>
T55Cr3	T55Cr <u>70</u>
T45Cr6Si4	T45Cr1Si <u>95</u>
T55Cr3V2	T55Cr70V <u>15</u>
T50Cr4V2	T50Cr1V <u>23</u>

(Continued)

SCHEDULE VI CARBON AND ALLOY TOOL STEELS — *Contd*

NEW DESIGNATIONS	OLD DESIGNATIONS	NEW DESIGNATIONS	OLD DESIGNATIONS
(1)	(2)	(1)	(2)
T105Cr5	T105Cr1	T140W15Cr2	T140W4Cr <u>50</u>
T105Cr5Mn	T105Cr1Mn <u>60</u>	XT160Cr12	T160Cr <u>12</u>
T90Mn6WCr2	T90Mn2W <u>50</u> Cr <u>45</u>	XT215Cr12	T215Cr <u>12</u>
T55Si7	T55Si2Mn <u>90</u>	XT32W9Cr3V	T33W9CrV <u>38</u>
T55Si7Mo3	T55Si2Mn <u>90</u> Mo <u>33</u>	XT55W14Cr3V	T55W14Cr3V <u>45</u>
T60Ni5	T60Ni1	XT70W14Cr4V	T70W14Cr4V <u>75</u>
T40Ni14	T40Ni3	XT122W14Co5CrV4	T123W14Co5CrV4
T30Ni16Cr5	T30Ni4Cr1	XT70W18Cr4V1	T70W18Cr4V1
T55Ni6CrMo3	T55Ni2Cr <u>65</u> Mo <u>30</u>	XT75W18Co6Cr4V Mo1	T75W18Co6Cr4 V1Mo <u>75</u>
T40Ni6Cr4Mo3	T40Ni2Cr1Mo <u>28</u>	XT75W18Co10Cr4V2 Mo1	T75W18Co10Cr4 V2Mo1
T31Ni10Cr3Mo6	T31Ni3Cr <u>65</u> Mo <u>55</u>	XT82MoW6Cr4V2	T83MoW6Cr4V2
T40Ni10Cr3Mo6	T40Ni3Cr <u>65</u> Mo <u>55</u>	10T4	T10
T35Cr20Mo14V3	T35Cr5Mo1V <u>30</u>	T15Cr3	T15Cr <u>65</u>
T35Cr20Mo14V11	T35Cr5MoV <u>11</u>	XTCr5Mo1V	T10Cr5Mo <u>75</u> V <u>23</u>
T35Cr20Mo14W6V3	T35Cr5MoW1V <u>30</u>	T16Ni3Cr2	T16Ni <u>80</u> Cr <u>60</u>
T40W8Cr5V2	T40W2Cr1V <u>18</u>	T15Ni5Cr4Mo1	T15NiCr1Mo <u>12</u>
T50W8Cr5V2	T50W2Cr1V <u>18</u>	T16Ni8Cr6Mo2	T16NiCr2Mo <u>20</u>
T105W6CrV2	T105W2Cr <u>60</u> V <u>25</u>		
T110W6Cr4	T110W2Cr1		

APPENDIX A

(Clause 0.2.1)

INDEX FOR DESIGNATIONS OF STEELS WHICH
ARE NOT COVERED IN IS:1570-1961 BUT ARE
INCLUDED IN INDIAN STANDARDS

INDIAN STANDARD IN WHICH STEEL IS INCLUDED	DESIGNATION AS GIVEN IN THE STANDARD	NEW DESIGNATION
(1)	(2)	(3)
IS:963	—	31Cr4Mo2
IS:2002	Grade 1	13C8*
	Grade 2A	15C8*
	Grade 2B	17C8*
IS:3445	55Cr1	55Cr5
	60Cr1	60Cr5
	46Ni1Cr <u>60</u>	46Ni5Cr2
	60Ni1Cr <u>75</u>	60Ni5Cr3
	88Cr2	88Cr6
	90Cr2	90Cr8
	80Cr2Ni1Mo <u>50</u>	80Cr6Ni4Mo5
	75Cr2Mo <u>35</u>	75Cr8Mo4
	85Cr2Mo <u>12V18</u>	85Cr7MoV1
	90Cr2V <u>18</u>	90Cr6V2
	90Cr2Mo <u>25V15</u>	90Cr6MoV2
	90Cr2W <u>45</u>	90Cr8W2
	80Ni3Cr2W <u>60</u>	80Ni12Cr7W2
	45NiCr2W <u>65</u>	45NiCr6W3
IS:3885 (Part I and II)	40Si2Mn <u>90</u>	40Si7
IS:3945	Grade A-N	12C12
	Grade B-N	14C16
IS:4398	103Cr2Mn <u>70</u>	102Cr6Mn

*IS:2002 does not specify manganese content for these grades. The designation is, therefore, based on the normally accepted average values of manganese for such grades.

SP : 14 - 1976

INDIAN STANDARD IN WHICH STEEL IS INCLUDED	DESIGNATION AS GIVEN IN THE STANDARD	NEW DESIGNATION
(1)	(2)	(3)
IS: 4454 (Part I)	Grade 1 Grade 2 Grade 3 Grade 4	62C8 72C6 88C6 88C6
IS: 4454 (Part II)	SW VW	65C8 65C8
IS: 4454 (Part III)	1S & 1D 2S & 2D	50Cr4V2 55Cr3
IS: 4454 (Part IV)	Grade 1 Grade 2	X10Cr18Ni9 X04Cr17Ni7Al1
IS: 4882	—	05C4
IS: 5489	C28	28C6
IS: 5522	04Cr19Ni9 07Cr19Ni9	X04Cr18Ni9 X07Cr18Ni9
IS: 6240	Grade A Grade B	12C4 15C8
IS: 7226	120Cr <u>35</u> 110Cr <u>35</u> W2	120Cr1 110W9Cr1
IS: 7291	T72W18Cr4V1 T75W18Co5Cr4V1Mo <u>70</u> T80W20Co12Cr4V2Mo <u>70</u> T125WCo10CrMo4V3 T83W6Mo5Cr4V2 T81W6CoMo5Cr4V2 T110Mo10Co8Cr4W1	XT72W18Cr4V1 XT75W18Co5Cr4MoV1 XT80W20Co12Cr4V2Mo1 XT125WCo10CrMo4V3 XT83W6Mo5Cr4V2 XT81W6CoMo5Cr4V2 XT110Mo10Co8Cr4W2
IS: 7494	53Cr <u>21</u> Mn9Ni4N <u>44</u>	X53Cr21Mn9Ni4N
IS: 7557	—	18C8

APPENDIX B

(Clause 0.2.1)

LIST OF REFERRED STANDARDS

IS:

- 963-1958 Chrome-molybdenum steel (bars and rods for aircraft purposes)
- 2002-1962 Steel plates for boilers
- 3445-1966 Forged steel rolls
- 3885 (Part I)-1966 Steel for the manufacture of laminated springs (railway rolling stock), Part I Flat sections
- 3885 (Part II)-1969 Steel for the manufacture of laminated springs (railway rolling stock), Part II Rib and groove sections
- 3945-1966 Steel for naval purposes
- 4398-1972 Carbon chromium steel for the manufacture of balls rollers and bearing races
- 4454 (Part I)-1975 Steel wires for cold formed springs, Part I Patented and cold drawn wires — unalloyed (*first revision*)
- 4454 (Part II)-1975 Steel wires for cold formed springs, Part II Oil-hardened and tempered spring steel wire and valve spring wire — unalloyed (*first revision*)
- 4454 (Part III)-1975 Steel wires for cold formed springs, Part III Oil-hardened and tempered steel wires — alloyed (*first revision*)
- 4454 (Part IV)-1975 Steel wires for cold formed springs, Part IV Stainless spring steel wires for normal corrosion resistance (*first revision*)
- 4882-1968 Low carbon steel wire for rivets for use in bearing industry
- 5489-1969 Carbonizing steel for use in bearing industry
- 5522-1969 Stainless steel sheets, coils and circles for utensils and hospitalware
- 6240-1971 Hot rolled steel sheets for the manufacture of low pressure gas cylinders
- 7226-1974 Cold rolled medium, high carbon and low alloy steel strip for general engineering purposes
- 7291-1974 High speed tool steel
- 7494-1974 Steel for valves for internal combustion engines
- 7557-1974 Steel valves for internal combustion engines

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53/5, Ward No. 29, R.G. Barua Road, 5th Byelane, GUWAHATI 781003	3 31 77
5-8-56C L. N. Gupta Marg (Nampally Station Road), HYDERABAD 500001	23 10 83
R14 Yudhister Marg, C Scheme, JAIPUR 302005	{ 6 34 71 6 98 32
117/418 B Sarvodaya Nagar, KANPUR 208005	{ 21 68 76 21 82 92
Patliputra Industrial Estate, PATNA 800013	6 23 05
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Institution of Engineers (India) Building, 1332 Shivaji Nagar, PUNE 411005	5 24 35

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