

BUREAU OF INDIAN STANDARDS

Program of Work

CHD 26 : Explosives And Pyrotechnics

Scope: Standardization in the field of Fireworks, including quality control, definitions, terminology, classification, categorization, labelling, test methods and basic safety requirements.

Liaison: **ISO TC-264 (P): Fireworks**

Published Standards

S.No	IS No.	TITLE	Reaffirm M-Y	No. of Amds	Eqv.
1	IS 10081 : 1981 <i>Reviewed In : 2021</i>	Terms relating to commercial explosives, pyrotechnics and blasting practices	April, 2021	-	Indigenous
2	IS 10126 : 1986 <i>Reviewed In : 2021</i> Reaffirmed but not taken up for revision	Specification for sparklers (First Revision)	April, 2021	1	Indigenous
3	IS 10212 (Part 1) : 1986 <i>Reviewed In : 2021</i>	General requirements of packages for explosives: Part 1 commercial high explosives (First Revision)	April, 2021	1	Indigenous
4	IS 10373 : 1982 <i>Reviewed In : 2021</i>	Specification for plastic boxes for safety matches	April, 2021	-	Indigenous
5	IS 10821 : 1984 <i>Reviewed In : 2021</i>	Specification for calcium nitrate for explosive industry	April, 2021	-	Indigenous
6	IS 1091 : 1985 <i>Reviewed In : 2023</i>	Specification for Nitrocellulose	August, 2023	-	Indigenous
7	IS 10977 : 1984 <i>Reviewed In : 2023</i>	Specification for pentarythritol for explosive industry	September, 2023	1	Indigenous
8	IS 11483 : 1985 <i>Reviewed In : 2021</i>	Specification for amorces (Paper Caps For Toy Piston)	April, 2021	1	Indigenous
9	IS 11491 : 1985 <i>Reviewed In : 2021</i>	Specification for blasting soluble nitrocellulose for explosives industry	April, 2021	1	Indigenous
10	IS 11783 : 1986 <i>Reviewed In : 2023</i>	Specification for ferrosilicon for explosive and pyrotechnic industry	November, 2023	-	Indigenous
11	IS 11803 : 1986 <i>Reviewed In : 2021</i>	Specification for magnesium oxide for explosive ammunition protective compositions and pyrotechnic industry	April, 2021	-	Indigenous
12	IS 12238 : 1987 <i>Reviewed In : 2021</i>	Specification for colour and star matches in boxes	April, 2021	-	Indigenous
13	IS 12276 : 1988 <i>Reviewed In : 2021</i>	Specification for dextrin for explosive and pyrotechnic industry	April, 2021	-	Indigenous
14	IS 12437 : 1988 <i>Reviewed In : 2023</i>	Specification for zirconium powder for use in explosive and pyrotechnic industry	September, 2023	1	Indigenous

15	IS 12630 : 1989 Reviewed In : 2021	Pyrotechnics - Fireworks black serpent pellets - Specification	April, 2021	1	Indigenous
16	IS 12631 : 1989 Reviewed In : 2021	Pyrotechnics - fireworks pencils - Specification	April, 2021	1	Indigenous
17	IS 12632 : 1989 Reviewed In : 2021	Pyrotechnics - Fireworks twinkling stars - Specification	April, 2021	1	Indigenous
18	IS 12681 : 1989 Reviewed In : 2023	Sodium nitrate for explosives and pyrotechnic industry - Specification	November, 2023	-	Indigenous
19	IS 12684 : 1989 Reviewed In : 2021	Calcium stearate for explosives and - Pyrotechnic industry - Specification	April, 2021	-	Indigenous
20	IS 12739 : 1989 Reviewed In : 2023 Reaffirmed but not taken up for revision	Fireworks conical flowerpots - Specification	July, 2023	1	Indigenous
21	IS 12980 : 1990 Reviewed In : 2021	Fireworks rockets - Specification	April, 2021	1	Indigenous
22	IS 13227 : 1991 Reviewed In : 2021	Fireworks whistles - Specification	April, 2021	1	Indigenous
23	IS 13522 : 1992 Reviewed In : 2021	Charcoal for explosives and pyrotechnic compositions - Specification	April, 2021	2	Indigenous
24	IS 13524 : 1992 Reviewed In : 2021	Potassium Perchlorate for Explosives and Pyrotechnic Compositions specification	April, 2021	-	Indigenous
25	IS 13526 : 1992 Reviewed In : 2021	Sodium perchlorate solution for explosives and pyrotechnic compositions - Specification	April, 2021	-	Indigenous
26	IS 14784 : 2000 Reviewed In : 2021	Fireworks signal flares - Specification	April, 2021	-	Indigenous
27	IS 14931 : 2001 Reviewed In : 2021	Fireworks wheel - Specification	April, 2021	-	Indigenous
28	IS 15073 (Part 1) : 2002 Reviewed In : 2023	Packaging of electric detonators - Specification: Part 1 wooden cases	September, 2023	-	Indigenous
29	IS 15073 (Part 2) : 2008 Reviewed In : 2023	Packaging of electric detonator: Part 2 corrugated fibreboard cases	September, 2023	-	Indigenous
30	IS 15074 (Part 1) : 2002 Reviewed In : 2023	Packaging of non - Electric detonators - Specification: Part 1 wooden cases	September, 2023	-	Indigenous
31	IS 15447 (Part 1) : 2004 Reviewed In : 2021	Commercial blasting explosives - Specification: Part 1 nitroglycerine based explosives	April, 2021	-	Indigenous
32	IS 15447 (Part 2) : 2008 Reviewed In : 2023	Commercial blasting explosives: Part 2 slurry/emulsion explosives - Specification	September, 2023	1	Indigenous
33	IS 16581 : 2018 Reviewed In : 2023	High density polyethylene (HDPE)/polypropylene (PP) woven sacks for packing of solid ammonium nitrate for explosives - Specification	September, 2023	-	Indigenous
34	IS 17402 : 2021	Cupric Oxide for Explosives and Pyrotechnic Composition - Specification		-	Indigenous
35	IS 17403 : 2020	Magnalium for Explosives and Pyrotechnic Composition "â€”		-	Indigenous

		Specification			
36	IS 18462 : 2023	ELECTRONIC DETONATORS SPECIFICATION		-	Indigenous
37	IS 2012 : 2006 Reviewed In : 2021	Red phosphorus - Specification (First Revision)	April, 2021	-	Indigenous
38	IS 2307 : 2004 Reviewed In : 2021	Magnesium powder for explosive and pyrotechnic compositions - Specification (Second Revision)	April, 2021	1	Indigenous
39	IS 2653 : 2004 Reviewed In : 2021	Safety matches in boxes - Specification (Third Revision)	April, 2021	1	Indigenous
40	IS 301 : 1982 Reviewed In : 2021	Specification for potassium nitrate for explosive and pyrotechnic compositions (Second Revision)	April, 2021	1	Indigenous
41	IS 438 : 2006 Reviewed In : 2021	Aluminium powder for explosives and pyrotechnic compositions - Specification (Second Revision)	April, 2021	1	Indigenous
42	IS 4396 : 1981 Reviewed In : 2021	Specification for barium nitrate for explosive and pyrotechnic compositions (First Revision)	April, 2021	1	Indigenous
43	IS 4668 : 1985 Reviewed In : 2021	Specification for ammonium nitrate for explosives (First Revision)	April, 2021	2	Indigenous
44	IS 5670 : 1984 Reviewed In : 2021	Specification for lead thiocyanate for explosive and pyrotechnic compositions (First Revision)	April, 2021	1	Indigenous
45	IS 5671 : 1984 Reviewed In : 2021	Specification for strontium nitrate for pyrotechnic compositions (First Revision)	April, 2021	1	Indigenous
46	IS 5713 : 1981 Reviewed In : 2021	Specification for manganese dioxide for explosive and pyrotechnic compositions (First Revision)	April, 2021	-	Indigenous
47	IS 5731 : 1970 Reviewed In : 2021	Specification for antimony sulphide for explosive and pyrotechnic compositions	April, 2021	2	Indigenous
48	IS 6609 (Part 1) : 1972 Reviewed In : 2021	Methods of test for commercial blasting explosives and accessories: Part 1 gun powder	April, 2021	-	Indigenous
49	IS 6609 (Part 2/Sec 1) : 1973 Reviewed In : 2021	Methods of test for commercial blasting explosives and accessories: Part 2 explosives: Sec 1 explosives, general	April, 2021	-	Indigenous
50	IS 6609 (Part 2/Sec 2) : 1974 Reviewed In : 2021	Methods of test for commercial blasting explosives and accessories: Part 2 explosives: Sec 2 explosives, permitted	April, 2021	1	Indigenous
51	IS 6609 (Part 2/Sec 3) : 1980 Reviewed In : 2021	Methods of test for commercial blasting explosives and accessories: Part 2 explosives: Sec 3 explosives, slurry	April, 2021	-	Indigenous
52	IS 6609 (Part 3) : 1973 Reviewed In : 2019	Methods standard of test for commercial blasting explosives and accessories: Part 3 detonators, general and permitted	March, 2019	-	Indigenous
53	IS 6609 (Part 3) : 2023 Reviewed In : 2024	Commercial Blasting Explosives and Accessories i½ Methods of Test Part 3 Detonators, General and Permitted (First Revision)	September, 2024	-	Indigenous
54	IS 6609 (Part 4) :	Methods of Test For Commercial	-	-	Indigenous

	2020	Blasting Explosives and Accessories Part 4 Detonating Fuses (Second Revision)			
55	IS 6609 (Part 5) : 1972 Reviewed In : 2021	Methods of test for commercial blasting explosives and accessories: Part 4 safety fuses	April, 2021	-	Indigenous
56	IS 708 : 1987 Reviewed In : 2021	Specification for potassium chlorate for explosive and pyrotechnic industry (Second Revision)	April, 2021	1	Indigenous
57	IS 7124 : 1973 Reviewed In : 2023	Specification for gun powder	November, 2023	1	Indigenous
58	IS 7401 : 1987 Reviewed In : 2023	Specification for paraffin wax for explosive and pyrotechnic industry (First Revision)	September, 2023	1	Indigenous
59	IS 7526 : 1996 Reviewed In : 2019 Decision taken to Reaffirm and Archive	Detonating fuses - Specification (Second Revision)	March, 2019	-	Indigenous
60	IS 7588 : 1992 Reviewed In : 2021	Barytes for explosives and pyrotechnic compositions - Specification (First Revision)	April, 2021	-	Indigenous
61	IS 7589 : 1974 Reviewed In : 2021	Specification for china clay for explosive and pyrotechnic industry	April, 2021	-	Indigenous
62	IS 7602 : 1975 Reviewed In : 2021	Specification for lead chromate for explosive and pyrotechnic compositions	April, 2021	-	Indigenous
63	IS 7632 : 1975 Reviewed In : 2021	Specification for detonators	April, 2021	-	Indigenous
64	IS 7633 : 1982 Reviewed In : 2021	Specification for calcium carbonate for explosive and pyrotechnic industry (First Revision)	April, 2021	1	Indigenous
65	IS 7738 : 1975 Reviewed In : 2021	Specification for safety fuse for commercial use	April, 2021	-	Indigenous
66	IS 7886 : 1997 Reviewed In : 2023	Barium chromate for explosives and pyrotechnic industry - Specification (First Revision)	November, 2023	-	Indigenous
67	IS 8063 : 1976 Reviewed In : 2021	Specification for red lead for explosive and pyrotechnic industry	April, 2021	1	Indigenous
68	IS 9600 : 1980 Reviewed In : 2021	Specification for safety matches in booklet	April, 2021	-	Indigenous
69	IS 9880 : 1981 Reviewed In : 2021	Specification for wax - Coated paper splints	April, 2021	1	Indigenous

Standards under Development

Projects Approved

SI. No.	Doc No.	Title
<i>No Records Found</i>		

Preliminary Draft Standards

SI. No.	Doc No.	Title
<i>No Records Found</i>		

Drafts Standards in WC Stage

SI. No.	Doc No.	Title
<i>No Records Found</i>		

Draft Standards Completed WC Stage

SI. No.	Doc No.	Title
1	CHD 26 (16100)	SHOCK TUBE DETONATORS SPECIFICATION
2	CHD 26 (16101)	CORD RELAYS SPECIFICATION
3	CHD 26 (23634)	NITROCELLULOSE SPECIFICATION Fourth Revision
4	CHD 26 (23635)	SPECIFICATION FOR GUN POWDER First Revision
5	CHD 26 (23636)	SPECIFICATION FOR PENTAERYTHRITOL FOR EXPLOSIVE INDUSTRY First Revision
6	CHD 26 (23638)	SODIUM NITRATE FOR EXPLOSIVES AND PYROTECHNIC INDUSTRY SPECIFICATION First Revision
7	CHD 26 (23651)	SPECIFICATION FOR ZIRCONIUM POWDER FOR USE IN EXPLOSIVE AND PYROTECHNIC INDUSTRY First Revision
8	CHD 26 (23675)	BARIUM CHROMATE FOR EXPLOSIVES AND PYROTECHNIC INDUSTRY SPECIFICATION Second Revision
9	CHD 26 (23678)	SPECIFICATION FOR PARAFFIN WAX FOR EXPLOSIVE AND PYROTECHNIC INDUSTRY Second Revision

Finalized Draft Indian Standard

SI. No.	Doc No.	Title
1	CHD 26 (23649) Revision of: IS 11783:1986	FERROSILICON FOR EXPLOSIVE AND PYROTECHNIC INDUSTRY SPECIFICATION First Revision

Finalized Draft Indian Standards under Print

SI. No.	Doc No.	Title
1	CHD 26 (14570) Revision of: IS 7632:1975	Detonators - specification

Total Published Standards:67 Total Standards Under development:11

Aspect Wise Report

Product : 60
Code of Practices : 0
Methods of Test : 7
Terminology : 1
Dimensions : 0
System Standard : 0
Safety Standard : 0
Others : 0
Service Specification : 0
Process Specification : 0
Unclassified : 0

Annexure-I :List of Indian Standards Withdrawn/Superseded

SI. No.	IS No. & Year	Title
1	IS 10374 : 1982 Reviewed In : 1998	Wooden splints for safety matches
2	IS 12975 : 1990	Fireworks aeroplanes

Annexure-II :List of Indian Product Standards

SI. No.	IS No. & Year	Title
1	IS 10126 : 1986 Reviewed In : 2021 Reaffirmed but not taken up for revision	Specification for sparklers First Revision
2	IS 10212 (Part 1) : 1986 Reviewed In : 2021	General requirements of packages for explosives Part 1 commercial high explosives First Revision
3	IS 10373 : 1982 Reviewed In : 2021	Specification for plastic boxes for safety matches
4	IS 10821 : 1984 Reviewed In : 2021	Specification for calcium nitrate for explosive industry
5	IS 1091 : 1985 Reviewed In : 2023	Specification for Nitrocellulose
6	IS 10977 : 1984 Reviewed In : 2023	Specification for pentarythritol for explosive industry
7	IS 11483 : 1985 Reviewed In : 2021	Specification for amorces Paper Caps For Toy Piston
8	IS 11491 : 1985 Reviewed In : 2021	Specification for blasting soluble nitrocellulose for explosives industry
9	IS 11783 : 1986 Reviewed In : 2023	Specification for ferrosilicon for explosive and pyrotechnic industry
10	IS 11803 : 1986 Reviewed In : 2021	Specification for magnesium oxide for explosive ammunition protective compositions and pyrotechnic industry
11	IS 12238 : 1987 Reviewed In : 2021	Specification for colour and star matches in boxes
12	IS 12276 : 1988 Reviewed In : 2021	Specification for dextrin for explosive and pyrotechnic industry
13	IS 12437 : 1988 Reviewed In : 2023	Specification for zirconium powder for use in explosive and pyrotechnic industry
14	IS 12630 : 1989 Reviewed In : 2021	Pyrotechnics - Fireworks black serpent pellets - Specification
15	IS 12631 : 1989 Reviewed In : 2021	Pyrotechnics - fireworks pencils - Specification
16	IS 12632 : 1989 Reviewed In : 2021	Pyrotechnics - Fireworks twinkling stars - Specification
17	IS 12681 : 1989 Reviewed In : 2023	Sodium nitrate for explosives and pyrotechnic industry - Specification
18	IS 12684 : 1989 Reviewed In : 2021	Calcium stearate for explosives and - Pyrotechnic industry - Specification
19	IS 12739 : 1989 Reviewed In : 2023 Reaffirmed but not taken up for revision	Fireworks conical flowerpots - Specification
20	IS 12980 : 1990 Reviewed In : 2021	Fireworks rockets - Specification
21	IS 13227 : 1991 Reviewed In : 2021	Fireworks whistles - Specification
22	IS 13522 : 1992 Reviewed In : 2021	Charcoal for explosives and pyrotechnic compositions - Specification
23	IS 13524 : 1992 Reviewed In : 2021	Potassium Perchlorate for Explosives and Pyrotechnic Compositions specification
24	IS 13526 : 1992 Reviewed In : 2021	Sodium perchlorate solution for explosives and pyrotechnic compositions - Specification
25	IS 14784 : 2000 Reviewed In : 2021	Fireworks signal flares - Specification
26	IS 14931 : 2001	Fireworks wheel - Specification

	Reviewed In : 2021	
27	IS 15073 (Part 1) : 2002 Reviewed In : 2023	Packaging of electric detonators - Specification Part 1 wooden cases
28	IS 15073 (Part 2) : 2008 Reviewed In : 2023	Packaging of electric detonator Part 2 corrugated fibreboard cases
29	IS 15074 (Part 1) : 2002 Reviewed In : 2023	Packaging of non - Electric detonators - Specification Part 1 wooden cases
30	IS 15447 (Part 1) : 2004 Reviewed In : 2021	Commercial blasting explosives - Specification Part 1 nitroglycerine based explosives
31	IS 15447 (Part 2) : 2008 Reviewed In : 2023	Commercial blasting explosives Part 2 slurry emulsion explosives - Specification
32	IS 16581 : 2018 Reviewed In : 2023	High density polyethylene HDPE polypropylene PP woven sacks for packing of solid ammonium nitrate for explosives - Specification
33	IS 17402 : 2021	Cupric Oxide for Explosives and Pyrotechnic Composition - Specification
34	IS 17403 : 2020	Magnalium for Explosives and Pyrotechnic Composition Specification
35	IS 18462 : 2023	ELECTRONIC DETONATORS SPECIFICATION
36	IS 2012 : 2006 Reviewed In : 2021	Red phosphorus - Specification First Revision
37	IS 2307 : 2004 Reviewed In : 2021	Magnesium powder for explosive and pyrotechnic compositions - Specification Second Revision
38	IS 2653 : 2004 Reviewed In : 2021	Safety matches in boxes - Specification Third Revision
39	IS 301 : 1982 Reviewed In : 2021	Specification for potassium nitrate for explosive and pyrotechnic compositions Second Revision
40	IS 438 : 2006 Reviewed In : 2021	Aluminium powder for explosives and pyrotechnic compositions - Specification Second Revision
41	IS 4396 : 1981 Reviewed In : 2021	Specification for barium nitrate for explosive and pyrotechnic compositions First Revision
42	IS 4668 : 1985 Reviewed In : 2021	Specification for ammonium nitrate for explosives First Revision
43	IS 5670 : 1984 Reviewed In : 2021	Specification for lead thiocyanate for explosive and pyrotechnic compositions First Revision
44	IS 5671 : 1984 Reviewed In : 2021	Specification for strontium nitrate for pyrotechnic compositions First Revision
45	IS 5713 : 1981 Reviewed In : 2021	Specification for manganese dioxide for explosive and pyrotechnic compositions First Revision
46	IS 5731 : 1970 Reviewed In : 2021	Specification for antimony sulphide for explosive and pyrotechnic compositions
47	IS 708 : 1987 Reviewed In : 2021	Specification for potassium chlorate for explosive and pyrotechnic industry Second Revision
48	IS 7124 : 1973 Reviewed In : 2023	Specification for gun powder
49	IS 7401 : 1987 Reviewed In : 2023	Specification for paraffin wax for explosive and pyrotechnic industry First Revision
50	IS 7526 : 1996 Reviewed In : 2019 Decision taken to Reaffirm and Archive	Detonating fuses - Specification Second Revision
51	IS 7588 : 1992 Reviewed In : 2021	Barytes for explosives and pyrotechnic compositions - Specification First Revision
52	IS 7589 : 1974 Reviewed In : 2021	Specification for china clay for explosive and pyrotechnic industry
53	IS 7602 : 1975	Specification for lead chromate for explosive and pyrotechnic compositions

	Reviewed In : 2021	
54	IS 7632 : 1975 Reviewed In : 2021	Specification for detonators
55	IS 7633 : 1982 Reviewed In : 2021	Specification for calcium carbonate for explosive and pyrotechnic industry First Revision
56	IS 7738 : 1975 Reviewed In : 2021	Specification for safety fuse for commercial use
57	IS 7886 : 1997 Reviewed In : 2023	Barium chromate for explosives and pyrotechnic industry - Specification First Revision
58	IS 8063 : 1976 Reviewed In : 2021	Specification for red lead for explosive and pyrotechnic industry
59	IS 9600 : 1980 Reviewed In : 2021	Specification for safety matches in booklet
60	IS 9880 : 1981 Reviewed In : 2021	Specification for wax - Coated paper splints