

(PREVIEW)

SUMMARIES OF INDIAN STANDARDS FOR BUILDING MATERIALS

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SECTION 1

CEMENT AND CONCRETE

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IS 2116 : 1980		Sand for masonry mortars (<i>first revision</i>)	1.7
IS 9142 : 1979		Artificial lightweight aggregates for concrete masonry units	1.8
CEMENT			
IS 269 : 1989		33 grade ordinary Portland cement (<i>fourth revision</i>)	1.10
IS 455 : 1989		Portland slag cement (<i>fourth revision</i>)	1.11
IS 1489 :		Portland pozzolana cement	
	(Part 1) : 1991	Fly ash based (<i>third revision</i>)	1.12
	(Part 2) : 1991	Calcined clay based (<i>third revision</i>)	1.13
IS 3466 : 1988		Masonry cement (<i>second revision</i>)	1.14
IS 6452 : 1989		High alumina cement for structural use	1.15
IS 6909 : 1990		Super sulphated cement	1.16
IS 8041 : 1990		Rapid hardening Portland cement (<i>second revision</i>)	1.17
IS 8042 : 1989		White Portland cement (<i>second revision</i>)	1.18
IS 8043 : 1991		Hydrophobic Portland cement (<i>second revision</i>)	1.19
IS 8112 : 1989		43 grade ordinary Portland cement (<i>first revision</i>)	1.20
IS 12269 : 1987		53 grade ordinary Portland cement	1.21
IS 12330 : 1988		Sulphate resisting Portland cement	1.22
CEMENT MATRIX PRODUCTS			
IS 2185		Concrete masonry units:	
	(Part 1) : 1979	Hollow and solid concrete blocks (<i>second revision</i>)	1.23
	(Part 2) : 1983	Hollow and solid lightweight concrete blocks (<i>first revision</i>)	1.25
	(Part 3) : 1984	Autoclaved cellular aerated concrete blocks (<i>first revision</i>)	1.27
IS 4996 : 1984		Reinforced concrete fence posts (<i>first revision</i>)	1.28
IS 5751 : 1984		Precast concrete coping blocks (<i>first revision</i>)	1.29
IS 5758 : 1984		Precast concrete kerbs (<i>first revision</i>)	1.30
IS 5820 : 1970		Precast concrete cable cover	1.32
IS 6072 : 1971		Auto claved reinforced cellular concrete wall slabs	1.33
IS 6073 : 1971		Auto claved reinforced cellular concrete floor and roof slabs	1.34
IS 6523 : 1983		Precast reinforced concrete door and window frames (<i>first revision</i>)	1.35

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IS 9893 : 1981	Precast concrete blocks for lintels and sills	1.36
IS 10388 : 1982	Corrugated coir wood wool cement roofing sheets	1.37
IS 12440 : 1988	Precast concrete stone masonry blocks	1.38
IS 12592 : 2002	Precast concrete manhole covers and frames (<i>first revision</i>)	1.39
IS 13356 : 1992	Precast ferrocement water tank (250 to 10,000 litres capacity)	1.40
IS 13990 : 1994	Precast reinforced concrete planks and joists for flooring and roofing	1.42
IS 14143 : 1994	Prefabricated bricks panel and partially precast joist for flooring and roofing	1.44
IS 14201 : 1994	Precast reinforced concrete channel unit for construction on floors and roofs.	1.46
IS 14241 : 1995	Precast L-panel units for roofing	1.48
ASBESTOS CEMENT PRODUCTS		
IS 459 : 1992	Corrugated and semi corrugated asbestos cement sheets.	1.50
IS 1592 : 2003	Asbestos cement pressure pipes and joints (<i>fourth revision</i>)	1.51
IS 1626	Asbestos cement building pipes and pipe fittings, gutters and gutter fittings and roofing fittings :	
(Part 1) : 1994	Pipe and pipe fittings (<i>second revision</i>)	1.55
(Part 2) : 1994	Gutter and gutter fittings (<i>second revision</i>)	1.57
(Part 3) : 1994	Roofing accessories (<i>second revision</i>)	1.58
IS 2096 : 1992	Asbestos cement flat sheets	1.59
IS 2098 : 1997	Asbestos cement building boards	1.60
IS 6908 : 1991	Asbestos cement pipes and fittings for sewerage and drainage (<i>first revision</i>)	1.61
IS 8870 : 1978	Asbestos cement cable conduits and troughs	1.63
IS 9627 : 1980	Asbestos cement pressure pipes (light duty)	1.64
IS 13000 : 1990	Silica asbestos cement flat sheets	1.66
IS 13008 : 1990	Shallow corrugated asbestos cement sheets	1.67
CONCRETE PIPES		
IS 458 : 2003	Precast concrete pipes (with and without reinforcement) (<i>fourth revision</i>)	1.68
IS 784 - 2001	Prestressed concrete pipes (including fittings) (<i>second revision</i>)	1.69
IS 1916 : 1989	Steel cylinder pipe with concrete lining and coating (<i>first revision</i>)	1.71
IS 4350 : 1967	Concrete porous pipes for under drainage	1.72
IS 7319 : 1974	Perforated concrete pipes	1.74
IS 7322 : 1985	Specials for steel cylinder reinforced concrete pipes (<i>first revision</i>)	1.76

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TREATMENT OF CONCRETE JOINTS		
IS 1834:1984	Hot applied sealing compounds for joints in concrete (<i>first revision</i>)	1.77
IS 1838	Preformed fillers for expansion joints in concrete pavement and structures (non extruding and resilient type)	
(Part 1):1983	Bitumen impregnated fibre (<i>first revision</i>)	1.78
(Part 2):1984	CNSL Aldehyde resin and coconut pith	1.79
IS 11433	One part gun-grade polysulphide-based joint sealant:	1.80
(Part 1):1985	General requirements	
IS 12118	Two part polysulphide-based sealant	1.81
(Part 1):1987	General requirements	

Note — **IS 2645:2003** Integral cement water proofing compounds is covered under “water proofing” and damp-proofing materials (*see* section 9)

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IS 3068 : 1986	Broken brick (Burnt clay) coarse aggregates for use in lime concrete (<i>second revision</i>)	2.7
IS 3115 : 1992	Lime based blocks (<i>second revision</i>)	2.8
IS 3182 : 1986	Broken brick (Burnt clay) fine aggregate for use in lime mortar (<i>second revision</i>)	2.9
IS 4098 : 1983	Lime pozzolana mixture (<i>first revision</i>)	2.10
IS 4139 : 1989	Calcum silicate bricks (<i>second revision</i>)	2.11
IS 10360 : 1982	Lime pozzolana concrete blocks for paving	2.12
IS 10772 : 1983	Quick setting lime pozzolana mixture	2.13
IS 12894 : 2002	Pulverized fuel ash-lime bricks (<i>first Revision</i>)	2.14

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IS 1130 : 1969	Marble (blocks, slabs and tiles)	3.5
IS 3316 : 1974	Structural granite (<i>first revision</i>)	3.6
IS 3620 : 1979	Laterite stone block for masonry (<i>first revision</i>)	3.7
IS 3622 : 1977	Sand stones (Slabs and tiles) (<i>first revision</i>)	3.8
IS 6250 : 1981	Roofing slate tiles (<i>first revision</i>)	3.9
IS 6579 : 1981	Coarse aggregate for water bound macadam (<i>first revision</i>)	3.10
IS 9394 : 1979	Stone lintels	3.11
IS 14223 (Part 1) : 1995	Polished building stones : Part 1 Granite	3.12

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IS 2180 : 1988	Heavy duty burnt clay building bricks (<i>third revision</i>)	4.4
IS 2222 : 1991	Burnt clay perforated building bricks (<i>third revision</i>)	4.5
IS 2691 : 1988	Burnt clay facing bricks (<i>second revision</i>)	4.6
IS 3583 : 1988	Burnt clay paving bricks (<i>second revision</i>)	4.7
IS 3952 : 1988	Burnt clay hollow bricks for walls and partitions (<i>second revision</i>)	4.8
IS 4885 : 1988	Sewer bricks (<i>first revision</i>)	4.9
IS 5779 : 1986	Burnt clay soling bricks (<i>first revision</i>)	4.10
IS 6165 : 1992	Dimensions of special shapes of clay bricks (<i>first revision</i>)	4.11
IS 13757 : 1993	Burnt clay fly ash building bricks	4.12
BURNT CLAY JALLIES		
IS 7556 : 1988	Burnt clay jallies (<i>first revision</i>)	4.13
TILES		
IS 654 : 1992	Clay roofing tiles, mangalore pattern (<i>third revision</i>)	4.14
IS 1464 : 1992	Clay ridge and ceiling tiles (<i>second revision</i>)	4.15
IS 1478 : 1992	Clay flooring tiles (<i>second revision</i>)	4.16
IS 2690	Burnt clay flat terracing tiles:	
(Part 1) : 1993	Machine-made (<i>second revision</i>)	4.17
(Part 2) : 1992	Hand made (<i>second revision</i>)	4.18
IS 3367 : 1993	Burnt clay tiles for use in lining irrigation and drainage works (<i>second revision</i>)	4.19
IS 3951	Hollow clay tiles for floors and roofs:	
(Part 1) : 1975	Filler type (<i>first revision</i>)	4.20
(Part 2) : 1975	Structural type (<i>first revision</i>)	4.21
IS 13317 : 1992	Clay roofing country tiles – half round and flat tiles.	4.22

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(Part 3) : 1996	Reinforced gypsum plaster boards (<i>second revision</i>)	5.5
IS 2547	Gypsum building plaster	
(Part 1) : 1976	Excluding premixed light weight plaster (<i>first revision</i>)	5.7
(Part 2) : 1976	Premixed light weight plaster (<i>first revision</i>)	5.9
IS 2849 : 1983	Non load bearing gypsum partition blocks (Solid and hollow types)	5.10
IS 8272 : 1984	Gypsum plaster for use in the manufacture of fibrous plaster boards (<i>first revision</i>)	5.11

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IS : 12896 : 1990	Indian timber for door and window shutters and frames—Classification	6.5
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IS 190 : 1991	Coniferous sawn timber (baulks and scantling) (<i>fourth revision</i>)	6.7
IS 876 : 1992	Wood poles for overhead power and telecommunication lines (<i>third revision</i>)	6.8
IS 1326 : 1992	Non-coniferous sawn timber (baulks and scantling) (<i>second revision</i>)	6.10
IS 1331 : 1971	Cut sizes of timber (<i>second revision</i>)	6.11
IS 2372 : 2004	Timber for cooling towers (<i>Second revision</i>)	6.13
IS 3337 : 1978	Ballies for general purposes (<i>first revision</i>)	6.14
IS 3629 : 1986	Structural timber in buildings (<i>first revision</i>)	6.15
IS 3731 : 1985	Teak squares (<i>first revision</i>)	6.17
IS 4891 : 1988	Preferred cut sizes of structural timber (<i>first revision</i>)	6.18
IS 4895 : 1985	Teak logs (<i>first revision</i>)	6.20
IS 5246 : 2000	Coniferous logs (<i>first revision</i>)	6.21
IS 6056 : 1970	Jointed wood poles for over head power and telecommunication lines	6.22
IS 7308 : 1999	Non-coniferous logs (<i>first revision</i>)	6.24
IS 10394 : 1982	Wooden sleepers for railway track	6.25

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IS 212 : 1983	Crude coal tar for general use (<i>second revision</i>)	7.5
IS 215 : 1995	Road tar (<i>third revision</i>)	7.6
IS 216 : 1961	Coal tar pitch (<i>revised</i>)	7.8
IS 218 : 1983	Creosote oil for use as wood preservatives (<i>second revision</i>)	7.9
IS 454 : 1994	Cutback bitumen from waxy crude (<i>second revision</i>)	7.10
IS 702 : 1988	Industrial bitumen (<i>second revision</i>)	7.11
IS 3117 : 2004	Bitumen emulsion for roads and allied application (anionic type) (<i>first revision</i>)	7.12
IS 8887 : 2004	Bitumen emulsion for roads (cationic type) (<i>second revision</i>)	7.14
IS 9912 : 1981	Coal tar based coating materials and suitable primers for protecting iron or steel pipe lines.	7.15

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IS 1542:1992	Sand for plaster (<i>second revision</i>)		8.6
IS 2116:1980	Sand for masonry mortars (<i>first revision</i>)		8.7
IS 4457:1982	Ceramic unglazed vitreous acid resisting tile (<i>first revision</i>).		8.8
IS 4832	Chemical resistant mortars :		
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IS 4860:1968	Acid Resistant bricks		8.12
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IS 13754:1993	Dust pressed ceramic tiles with water absorption of $6 < E \leq 10$ percent Group (B IIb)		8.15
IS 13755:1993	Dust pressed ceramic tiles with water absorption of $3 < E < 6$ percent Group (B II a)		8.18
IS 13756:1993	Dust pressed ceramic tiles with Low water absorption of $E \leq 3$ percent Group (B I)		8.21
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IS 1195:2002	Bitumen mastic for flooring (<i>third revision</i>)		8.30
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IS 8374:1977	Bitumen mastic, anti-static and electrically conducting grade		8.33
IS 9510:1980	Bitumen mastic acid-resisting grade		8.34
IS 12583:1988	Corrugated bitumen roofing sheets		8.36
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IS 3461:1980	PVC asbestos floor tiles (<i>first revision</i>)		8.41

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IS 9197:1979	Epoxy resin, hardeners and epoxy resin composition for floor topping.	8.44
IS 12866:1989	Plastic translucent sheets made from thermosetting polyester resin (Glassfibre reinforced)	8.46
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IS 638:1979	Sheet rubber jointing and rubber insertion jointing (<i>second revision</i>)	8.48
IS 809:1992	Rubber flooring materials for general purposes (<i>second revision</i>)	8.50

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IS 1580 : 1991	Bituminous compounds for water-proofing and caulking purposes (<i>second revision</i>)	9.6
IS 2645 : 2003	Integral cement water-proofing compounds (<i>second revision</i>)	9.7
IS 3037 : 1986	Bitumen mastic for use in water-proofing of roofs (<i>first revision</i>)	9.8
IS 3384 : 1986	Bitumen primer for use in water-proofing and damp proofing (<i>first revision</i>)	9.10
IS 5871 : 1987	Bitumen mastic for tanking and damp proofing (<i>first revision</i>)	9.11
IS 7193 : 1994	Glass fibre base bitumen felts. (<i>first revision</i>)	9.12
IS 12027 : 1987	Silicone-based water repellents.	9.13
IS 14695 : 1999	Glass fibre base coal tar pitch outer wraps	9.14

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IS 782:1978	Caulking lead (<i>third revision</i>)	10.9
IS 804:1967	Rectangular pressed steel tanks (<i>first revision</i>)	10.10
IS 1700:1973	Drinking fountains (<i>first revision</i>)	10.11
IS 2963:1979	Copper alloy wastage-fittings for wash basins and sinks (<i>first revision</i>)	10.12
IS 3489:1985	Enamelled steel bath tubs (<i>first revision</i>)	10.13
IS 5219 (Part1):1969	Cast copper alloy traps Part1 - 'P' and 'S' traps.	10.16
IS 6411:1985	Gel-Coated glass fibre reinforced polyester resin bath tubs (<i>first revision</i>)	10.18
IS 8718:1978	Vitreous enamelled steel kitchen sinks	10.20
IS 8727:1978	Vitreous enamelled steel wash-basins.	10.21
IS 12701:1996	Rotational moulded polyethylene water storage tanks (<i>first revision</i>)	10.22
IS 13983:1994	Stainless steel sinks for domestic purposes.	10.25
IS 14399 (Part & 2):1996	Hot press moulded thermosetting glass fibre reinforced poltester resin (GRP) Sectional water storage tanks.	10.27
PIPES AND FITTINGS EXCLUDING VALVES		
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IS 407:1981	Brass tube for general purposes (<i>third revision</i>)	10.29
IS 2501:1995	Solid drawn copper tubes for general engineering purposes (<i>third revision</i>)	10.31
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IS: 1230:1979	Cast iron rain water pipes and fittings (<i>second revision</i>).	10.32
IS 1536:2001	Centrifugally cast (spun) iron pressure pipes for water, gas and sewage (<i>fourth revision</i>)	10.33
IS 1537:1976	Vertically cast iron pressure pipes for water, gas and sewage (<i>first revision</i>)	10.35
IS 1538:1993	Cast iron fitting for pressure pipes for water, gas and sewage (<i>third revision</i>)	10.36
IS 1729:2002	Sand cast iron spigot and socket soil waste and ventilating pipes, fittings and accessories (<i>second revision</i>)	10.40
IS 1879:1987	Malleable cast iron pipe fittings (<i>second revision</i>)	10.42
IS 3989:1984	Centrifugally cast (spun) iron spigot and socket soil, waste and ventilating pipes, fittings and accessories (<i>second revision</i>)	10.46
IS 5382:1985	Rubber sealing rings for gas mains, water mains and sewers (<i>first revision</i>)	10.48
IS 5531:1988	Cast iron specials for asbestos-cement pressure pipes for water, gas and sewage (<i>first revision</i>)	10.50

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IS 6163 : 1978	Centrifugally cast (spun) iron low pressure pipes for water, gas and sewage (<i>first revision</i>)	10.52
IS 6418 : 1971	Cast iron and malleable cast iron flanges for general engineering purpose.	10.54
IS 7181:1986	Horizontally cast iron double flanged pipes for water, gas and sewage (<i>first revision</i>)	10.56
IS 8329 : 2000	Centrifugally cast (spun) ductile iron pressure pipes for water, gas and sewage (<i>third revision</i>)	10.57
IS 8794 : 1988	Cast iron detachable joints for use with asbestos cement pressure pipes <i>first revision</i>)	10.59
IS 9523 : 2000	Ductile iron fitting for pressure pipes for water, gas and sewage (<i>first revision</i>)	10.60
IS 10292 : 1988	Dimensional requirements of rubber sealing rings for CID joints in asbestos cement piping (<i>first revision</i>)	10.61
IS 10299 : 1982	Cast iron saddle pieces for service connection from asbestos cement pressure pipes.	10.62
IS 12820 : 2004	Dimensional requirements of rubber gaskets for mechanical joints and push on joints for use with cast iron pipes and fittings for carrying water, gas and sewage (<i>first revision</i>)	10.63
IS 12987 : 1991	Cast iron detachable joints for use with asbestos cement pressure pipes (light duty)	10.65
IS 12988 : 1991	Dimensional requirements for rubber sealing rings for CID joints in asbestos cement piping for light duty AC pipes.	10.66
IS 13382 : 2004	Cast iron specials for mechanical and push- on flexible joints for pressure pipe lines for water, gas and sewage (<i>first revision</i>)	10.67
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IS 11925 : 1986	Pitch impregnated fibre pipes and fittings for drainage puposes	10.69
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IS 404 (Part 1) : 1993	Lead pipes (Part I) for other than chemical purposes (<i>third revision</i>)	10.71
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IS 3076 : 1985	Low density polyethylene pipes for potable water supplies (<i>second revision</i>).	10.72
IS 4984 : 1995	High density polyethylene pipes for potable water supplies (<i>fourth revision</i>)	10.74
IS 4985 : 2000	Unplasticised PVC pipes for potable water supplies (<i>third revision</i>).	10.76
IS 7834 : 1987	Injection moulded PVC fittings with solvent cement joints for water supplies (<i>first revision</i>)	
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IS 8008 : 2003	Injection moulded HDPE fitting for potable water supplies (<i>first revision</i>)	
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IS 10124 : 1988	Specification for fabricated PVC fitting water supplies (<i>first revision</i>)	
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IS 12709 : 1994	Glass fibre reinforced plaster (GRP) pipes joints and fittings for use for potable water supply (<i>first revision</i>).	10.114
IS 12818 : 1992	Unplasticised PVC screens and casting pipes for bore / tubewell supply use (<i>first revision</i>).	10.118

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IS 13592:1992	UPVC pipes for soil and waste discharge systems for inside and outside buildings including ventilation and rain water system	10.122
IS 14333:1996	High density polyethylene pipe for sewage	10.125
IS 14402:1996	GRP pipes joint and fitting for sewerage, industrial waste and water (other than potable)	10.127
IS 14735:1999	Unplasticised polyvinyl chloride (UPVC) injection moulded fitting for soil and waste discharge system for inside and outside buildings including ventilation and rain water systems.	10.130

STEEL TUBES, PIPES AND FITTINGS

IS 1239:	Steel tubes, tubulars and other wrought steel fittings	
Part I:2004	Steel tubes (<i>sixth revision</i>)	10.133
Part 2:1992	Steel tubulars and other wrought steel fittings (<i>fourth revision</i>)	10.136
IS 3589:2001	Seamless or electrically welded steel pipes for water, gas and sewage (168.3 to 2032 mm outside diameter) (<i>third revision</i>)	10.138
IS 4270:2001	Steel tubes used for water wells (<i>third revision</i>)	10.140
IS 5504:1997	Spiral welded pipes (<i>first revision</i>)	10.142
IS 6286:1971	Seamless welded steel pipes for sub zero temperature service	10.143

STONEWARE

IS 651:1992	Salt glazed stoneware pipes and fittings (<i>fifth revision</i>)	10.145
IS 3006:1979	Chemically resistant glazed stoneware pipes and fittings (<i>first revision</i>)	10.147

Note— Asbestos, cement and concrete pipes have been covered in Section 1 On cement and concrete

SANITARY APPLIANCES

IS 771:	Glazed fire-clay sanitary appliances	
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Note1 – See also Section 17 Structural Shapes

Note2 – IS 280 : 1978 Mild steel wire for general engineering purposes and IS 7887 : 1992. Mild steel wire rods for general engineering purposes (*first revision*) have been covered in Section 14 Concrete reinforcement.

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* This covers both aluminium and steel.

Note – See also Section 15 Structural steel and Section 16 Light metal and their alloys.

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