

# BUREAU OF INDIAN STANDARDS

## Program of Work

### MTD 15 : Refractories Sectional Committee

Scope: Standardization in the field of refractories

Liaison: **ISO TC-33 (P): Refractories ISO TC-33 (P): Test methods for dense shaped refractories**

## Published Standards

S.No	IS No.	TITLE	Reaffirm M-Y	No. of Amds	Eqv.
1	IS 10047 : 2023 <span style="color: green;">ISO 1927-5: 2012</span>	Refractory Plastic and Ramming Mass - Method of test (First Revision)		-	Not Equivalent
2	IS 10551 : 2005 <span style="color: green;">Reviewed In : 2020</span>	Zircon mullite refractories for glass furnace applications - Specification (First Revision)	March, 2020	-	Indigenous
3	IS 10570 : 2011 <span style="color: green;">Reviewed In : 2022</span>	Methods of testing refractory castables (First Revision)	March, 2022	-	Indigenous
4	IS 10817 : 1984 <span style="color: green;">Reviewed In : 2020</span>	Specification for bauxite for refractory industry	March, 2020	-	Indigenous
5	IS 10819 : 1999 <span style="color: green;">Reviewed In : 2022</span>	Chromite for refractory industry - Specification (First Revision)	March, 2022	-	Indigenous
6	IS 11036 : 1984 <span style="color: green;">Reviewed In : 2022</span>	Specification for clay graphite stopper heads	March, 2022	-	Indigenous
7	IS 12847 : 1997 <span style="color: green;">Reviewed In : 2022</span>	Carbon bonded silicon carbide crucibles - Specification (First Revision)	March, 2022	-	Indigenous
8	IS 12893 : 2006 ISO 1146:1988 <span style="color: green;">Reviewed In : 2022</span> ISO 1146:1988	Pyrometric reference cones for laboratory use - Specification (First Revision)	March, 2022	-	Identical under dual numbering
9	IS 1292 : 1991 <span style="color: green;">Reviewed In : 2022</span>	Silica mortar for laying silica bricks in furnaces - Specification (First Revision)	March, 2022	-	Indigenous
10	IS 12951 : 2006 <span style="color: green;">Reviewed In : 2022</span>	Mica insulating bricks for high temperature applications - Specification (First Revision)	March, 2022	-	Indigenous
11	IS 13150 : 1991 <span style="color: green;">Reviewed In : 2022</span>	Silica mortar for laying silica bricks in coke ovens - Specification	March, 2022	-	Indigenous
12	IS 13185 : 1991 <span style="color: green;">Reviewed In : 2022</span>	Method of test for determination of drying shrinkage of refractory mortars	March, 2022	-	Indigenous
13	IS 14296 : 1995 <span style="color: green;">Reviewed In : 2022</span>	Dolomite for refractory industry - Specification	March, 2022	1	Indigenous
14	IS 14301 : 1995 <span style="color: green;">Reviewed In : 2022</span>	Kyanite for refractory industry - Specification	March, 2022	1	Indigenous
15	IS 14302 : 1995 <span style="color: green;">Reviewed In : 2022</span>	Beach sand silimanite for refractory industry - Specification	March, 2022	-	Indigenous

16	IS 14303 : 1995 Reviewed In : 2022	Magnesite for refractory industry - Specification	March, 2022	-	Indigenous
17	IS 14313 : 1995 Reviewed In : 2022	70 percent alumina bricks - Specification	March, 2022	-	Indigenous
18	IS 14406 : 1996 Reviewed In : 2022	Refractories for forge and heat treatment furnaces - Recommendations	March, 2022	-	Indigenous
19	IS 14447 : 1997 Reviewed In : 2022	Refractories for use in foundry industry - Recommendations	March, 2022	-	Indigenous
20	IS 14713 : 1999 Reviewed In : 2022	Synthetic (Fused) mullite and alumina grains for refractory industry - Specification	March, 2022	1	Indigenous
21	IS 14852 : 2000 Reviewed In : 2022	Flaky graphite for refractory industry - Specification	March, 2022	-	Indigenous
22	IS 1526 : 1960 Reviewed In : 2022	Sizes and shapes for firebricks (230 Mm Series)	March, 2022	1	Indigenous
23	IS 1528 (Part 1) : 2010 Reviewed In : 2020	Methods of sampling and physical tests for refractory materials: Part 1 determination of pyrometric cone equivalent (Pce) or softening point (Third Revision)	March, 2020	2	Indigenous
24	IS 1528 (Part 2) : 2011 Reviewed In : 2023	Methods of sampling and physical tests for refractory materials: Part 2 determination of refractoriness under load (Second Revision)	August, 2023	1	Indigenous
25	IS 1528 (Part 3) : 2010 Reviewed In : 2020	Methods of sampling and physical tests for refractory materials: Part 3 determination of spalling resistance (Third Revision)	March, 2020	1	Indigenous
26	IS 1528 (Part 4) : 2012 Reviewed In : 2022 ISO 10059-1	Methods of sampling and physical tests for refractory materials: Part 4 determination of cold crushing strength of dense shaped refractories products (Second Revision)	March, 2022	1	Not Equivalent
27	IS 1528 (Part 5) : 2007 ISO 5014:1997 Reviewed In : 2022 ISO 5014:1997	Methods of sampling and physical tests for refractory materials: Part 5 method for determination of modulus of rupture at ambient temperature of dense and insulating shaped refractory products (Third Revision)	March, 2022	-	Identical under dual numbering
28	IS 1528 (Part 6) : 2010 Reviewed In : 2020 ISO 2477	Methods of sampling and physical tests for refractory materials: Part 6 determination of permanent linear change after reheating for shaped insulating and dense refractories (Second Revision)	March, 2020	-	Not Equivalent
29	IS 1528 (Part 7) : 2010 Reviewed In : 2020 ISO 5022 and ISO 1927-2	Methods of sampling and physical tests for refractory materials: Part 7 methods of sampling and criteria for conformity (Second Revision)	March, 2020	1	Not Equivalent
30	IS 1528 (Part 9) : 2007 ISO 5018:1983 Reviewed In : 2022 ISO 5018:1983	Methods of sampling and physical tests for refractory materials: Part 9 determination of true density (Fourth Revision)	March, 2022	-	Identical under dual numbering
31	IS 1528 (Part 12) :	Methods of sampling and physical	March, 2022	-	Identical under dual

	2007 ISO 5016:1997 Reviewed In : 2022 ISO 5016:1997	tests for refractory materials: Part 12 method for determination of bulk density and true porosity of shaped insulating refractory products (Second Revision)			numbering
32	IS 1528 (Part 13) : 2007 ISO 12676:2000 Reviewed In : 2022 ISO 12676:2000	Methods of sampling and physical tests for refractory materials: Part 13 determination of resistance to carbon monoxide (Second Revision)	March, 2022	-	Identical under dual numbering
33	IS 1528 (Part 14) : 1974 Reviewed In : 2024 ISO 13765-5	Methods of sampling and physical tests for refractory materials: Part 14 determination of sieve analysis (First Revision)	March, 2024	-	Not Equivalent
34	IS 1528 (Part 15) : 2020 ISO 5017:2013 ISO 5017:2013	Methods of Sampling and Physical Tests for Refractory Materials Part 15 Method for Determination of Bulk Density, Apparent Porosity and True Porosity of Dense Shaped Refractory Products ( Second Revision )	-	-	Identical under dual numbering
35	IS 1528 (Part 16) : 2020 ISO 8894-2:2007 ISO 8894-2 : 2007	Methods of Sampling and Physical Tests for Refractory Materials Part 16 Determination of Thermal Conductivity According to Hot-Wire Method ( Parallel ) ( Second Revision )	-	-	Identical under dual numbering
36	IS 1528 (Part 17) : 2012 ISO 8895:2004 Reviewed In : 2023 ISO 8895:2004	Methods of sampling and physical tests for refractory materials: Part 17 shaped insulating refractory products - Determination of cold crushing strength (First Revision)	August, 2023	-	Identical under dual numbering
37	IS 1528 (Part 18) : 1993 ISO 3187:1989 Reviewed In : 2023 ISO 3187:1989	Methods of sampling and physical tests for refractory materials: Part 18 determination of creep in compression	August, 2023	-	Identical under dual numbering
38	IS 1528 (Part 19) : 2020 ISO 16835 : 2014 ISO 16835	Methods of Sampling and Physical Tests for Refractory Materials Part 19 Determination of Thermal Expansion ( First Revision )	-	-	Identical under dual numbering
39	IS 1528 (Part 20) : 2023 ISO 5013 : 1985 ISO 5013 : 1985	Methods of Sampling and Physical Tests for Refractory Materials : Part 20 Determination of Modulus of Rupture at Elevated Temperature (first revision)		-	Identical under dual numbering
40	IS 1528 (Part 21) : 2020 ISO 8894-1: 2010 ISO 8894-1 : 2010	Methods of Sampling and Physical Tests for Refractory Materials Part 21 Determination of Thermal Conductivity According to Hot-Wire Method ( Cross-Array and Resistance Thermometer ) ( First Revision )	-	-	Identical under dual numbering
41	IS 1528 (Part 22) : 2007 ISO 8841:1991 Reviewed In : 2022 ISO 8841:1991	Methods of sampling and physical tests for refractory materials: Part 22 method for determination of permeability to gases of dense shaped refractory products	March, 2022	-	Identical under dual numbering
42	IS 1528 (Part 23) :	Methods of sampling and physical	March, 2022	-	Identical under dual

	2011 Reviewed In : 2022 ISO 16282:2008	tests for refractory materials: Part 23 methods of test for dense shaped refractory products - Determination of resistance to abrasion at ambient temperature			numbering
43	IS 1528 (Part 24) : 2020 ISO 16334 : 2013 ISO 16334 : 2013	Methods of Sampling and Physical Tests for Refractory Materials Part 24 Monolithic Refractory Products â€” Determination of Resistance to Explosive Spalling		-	Identical under dual numbering
44	IS 1528 (Part 25) : 2020 ISO 16349 : 2015 16349 : 2015	Methods of Sampling and Physical Tests for Refractory Materials Part 25 Determination of Abrasion Resistance at Elevated Temperature		-	Identical under dual numbering
45	IS 1528 (Part 26) : 2024 ISO 8890:1988 ISO 8890:1988	Methods of Sampling and Physical Tests for Refractory Materials : Part 26 Method for Determination of Resistance to Sulfuric Acid of Dense Shaped Refractory Products		-	Identical under dual numbering
46	IS 1528 (Part 27) : 2024 ISO 22685:2021 ISO 22685:2021	Methods of Sampling and Physical Tests for Refractory Materials : Part 27 Method for Determination of Compressive Strength at Elevated Temperature of Refractory Products		-	Identical under dual numbering
47	IS 15507 : 2004 Reviewed In : 2020	Basic insulating coating material for application in tundish used in steel plants - Specification	March, 2020	-	Indigenous
48	IS 15508 : 2004 Reviewed In : 2020	Refractory mass (Basic Gunning) for steel plant application - Specification	March, 2020	-	Indigenous
49	IS 15541 : 2005 Reviewed In : 2022	Low cement and ultra low cement castables for general purposes - Specification	March, 2022	-	Indigenous
50	IS 15895 : 2018 Reviewed In : 2023	High alumina refractory cement - Specification (First Revision)	August, 2023	-	Indigenous
51	IS 16051 (Part 1) : 2013 ISO 12678-1:1996 Reviewed In : 2023 ISO 12678-1:1996	Refractory products - Measurement of dimensions and external defects of refractory bricks: Part 1 dimensions and conformity to drawings	August, 2023	-	Identical under dual numbering
52	IS 16051 (Part 2) : 2013 ISO 12678-2:1996 Reviewed In : 2023 ISO 12678-2:1996	Refractory products - Measurement of dimensions and external defects of refractory bricks: Part 2 corner and edge defects and other surface imperfections	August, 2023	-	Identical under dual numbering
53	IS 16052 (Part 1) : 2013 ISO 13765-1:2004 Reviewed In : 2023 ISO 13765-1:2004	Refractory mortars: Part 1 determination of consistency using the penetrating cone method	August, 2023	-	Identical under dual numbering
54	IS 16052 (Part 2) : 2013 ISO 13765-2:2004 Reviewed In : 2023 ISO 13765-2:2004	Refractory mortars: Part 2 determination of consistency using the reciprocating flow table method	August, 2023	-	Identical under dual numbering

55	IS 16052 (Part 3) : 2013 ISO 13765-3:2004 Reviewed In : 2023 ISO 13765-3:2004	Refractory mortars: Part 3 determination of joint stability	August, 2023	-	Identical under dual numbering
56	IS 16052 (Part 4) : 2013 ISO 13765-4: 2004 Reviewed In : 2022 ISO 13765-4:2004	Refractory mortars: Part 4 determination of flexural bonding strength	August, 2022	-	Identical under dual numbering
57	IS 16052 (Part 5) : 2013 ISO 13765-5:2004 Reviewed In : 2022 ISO 13765-5:2004	Refractory mortars: Part 5 determination of grain size distribution (Sieve Analysis)	August, 2022	-	Identical under dual numbering
58	IS 16052 (Part 6) : 2013 ISO 13765-6:2004 Reviewed In : 2022 ISO 13765-6:2004	Refractory mortars: Part 6 determination of moisture content of ready - Mixed mortars	August, 2022	-	Identical under dual numbering
59	IS 17107 : 2019 Reviewed In : 2023	Method for determination of thermal conductivity of dense as well as insulating fired refractories, refractory monolithics and precast prefired (PCPF) shapes	August, 2023	1	Indigenous
60	IS 1749 : 2005 Reviewed In : 2022	Burnt magnesite refractories - Specification (Third Revision)	March, 2022	-	Indigenous
61	IS 1750 : 1995 Reviewed In : 2022	Dead - Burned pea magnesite - Specification (Third Revision)	March, 2022	-	Indigenous
62	IS 1751 : 1984 Reviewed In : 2022	Specification for fireclay cupola refractories (Second Revision)	March, 2022	-	Indigenous
63	IS 17699 : 2022	Standard Classification of Silicon Carbide (SiC) Refractories		-	Indigenous
64	IS 18169 : 2023	DETERMINATION OF AVERAGE CRYSTAL SIZE OF MAGNESIA		-	Indigenous
65	IS 18171 : 2023 ISO 8840:1987	DETERMINATION OF DENSITY AND POROSITY FOR GRANULAR REFRACTORY MATERIALS		-	Not Equivalent
66	IS 18816 : 2024 ISO 5417:1986 ISO 5417:1986	Refractory bricks for use in rotary kilns $i_{\frac{1}{2}}$ Dimensions		-	Identical under dual numbering
67	IS 18817 : 2024 ISO 9205:1988 ISO 9205:1988	Refractory bricks for use in rotary kilns $i_{\frac{1}{2}}$ Hot-face identification marking		-	Identical under dual numbering
68	IS 18824 (Part 1) : 2024 ISO 20182:2008 ISO 20182:2008	Refractory test-piece preparation : Part 1 Gunning refractory panels by the pneumatic-nozzle mixing type guns.		-	Identical under dual numbering
69	IS 195 : 2005 Reviewed In : 2022	Fireclay mortar for laying fireclay refractory bricks - Specification (Fourth Revision)	March, 2022	-	Indigenous
70	IS 2042 : 2006 Reviewed In : 2022	Insulating bricks - Specification (Second Revision)	March, 2022	-	Indigenous
71	IS 2043 : 1984 Reviewed In : 2022	Specification for siliceous fireclay refractories (First Revision)	March, 2022	-	Indigenous
72	IS 2044 : 2005 Reviewed In : 2022	Mullite refractories for glass melting tank furnaces -	March, 2022	1	Indigenous

		Specification (Second Revision)			
73	IS 3304 : 2005 Reviewed In : 2022	Burnt magnesite - Chrome refractories for general purposes - Specification (First Revision)	March, 2022	-	Indigenous
74	IS 3305 : 2005 Reviewed In : 2022	Burnt chrome - Magnesite refractories for general purposes - Specification (First Revision)	March, 2022	-	Indigenous
75	IS 4041 : 2006 ISO 836:2001 Reviewed In : 2022 ISO 836:2001	Terminology for refractories (First Revision)	March, 2022	-	Identical under dual numbering
76	IS 4812 : 1996 Reviewed In : 2022	Silica refractories for coke oven - Specification (Second Revision)	March, 2022	-	Indigenous
77	IS 4813 : 1980 Reviewed In : 2022	Specification for chemically - Bonded chrome - Magnesitb refractories for general purposes (First Revision)	March, 2022	-	Indigenous
78	IS 4814 : 1980 Reviewed In : 2022	Specification for chemically - Bonded magnesite - Chrome refractories for general purposes - (First Revision)	March, 2022	-	Indigenous
79	IS 483 : 1972 Reviewed In : 2022	Specification for fireclay refractories for oil - Fired boiler furnaces of naval ships (First Revision)	March, 2022	-	Indigenous
80	IS 484 : 1980 Reviewed In : 2022	Specification for silica refractories for general purposes (Second Revision)	March, 2022	-	Indigenous
81	IS 5495 : 1969 Reviewed In : 2022	Sizes and shapes for firebricks (300 Mm And Higher Sizes)	March, 2022	1	Indigenous
82	IS 6 : 1983 Reviewed In : 2020	Moderate Heat Duty Fireclay Refractories, Group `A'	March, 2020	-	Indigenous
83	IS 7199 : 2008 Reviewed In : 2024	Blast furnace stove refractories - Specification (First Revision)	March, 2024	-	Indigenous
84	IS 8 : 1994 Reviewed In : 2022	High heat duty fireclay refractories - Specification (Fgth Revision)	April, 2022	-	Indigenous
85	IS 8953 : 2006 Reviewed In : 2022	62 percent alumina bricks and blocks for blast furnace - Specification (First Revision)	March, 2022	1	Indigenous
86	IS 9010 : 1978 Reviewed In : 2022	Specificatign for super heat duty fireclay refractories	March, 2022	-	Indigenous
87	IS 9930 : 2005 Reviewed In : 2020	Zircon refractories for glass furnace applications - Specification (First Revision)	March, 2020	-	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
<i>No Records Found</i>		

### Finalized Draft Indian Standard

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

### Finalized Draft Indian Standards under Print

SI. No.	Doc No.	Title
1	MTD 15 (23720)	Refractory mortars Part 7 Determination of permanent change in dimensions on heating
2	MTD 15 (23765)	Refractory test-piece preparation Part 2 Gunning refractory panels by wet gunning techniques
3	MTD 15 (23810)	Methods of Sampling and Physical Tests for Refractory Materials Part 28 Determination of dynamic Young's modulus MOE by impulse excitation of vibration
4	MTD 15 (23822)	Methods of Sampling and Physical Tests for Refractory Materials Part 29 Determination of dynamic Young's modulus MOE at elevated temperatures by impulse excitation of vibration

**Total Published Standards:81 Total Standards Under development:4**

### Aspect Wise Report

Product : 43  
Code of Practices : 5  
Methods of Test : 35  
Terminology : 1  
Dimensions : 2  
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 10607 : 1983 Reviewed In : 2017	Specification for refractories for cement rotary kilns
2	IS 11452 : 1985 Reviewed In : 2020	Method of testing air - Setting refractory mortars
3	IS 14374 : 1996 Reviewed In : 2011	Refractories for chimney - Recommendation
4	IS 1522 : 1998 Reviewed In : 2017	Fireclay blocks for glass tank furnace - Specification Second Revision
5	IS 1523 : 1972 Reviewed In : 2022	Specification for bottom - Pouring refractories for steel plants First Revision
6	IS 1524 : 1968 Reviewed In : 2017	Specification for refractory sleeves First Revision
7	IS 1525 : 1968 Reviewed In : 2017	Ladle refractories for steel plants
		Methods of Sampling and Physical Tests for Refractory Materials - Part VIII Determination of

8	IS 1528 (Part 8) : 1974 Reviewed In : 2009	Apparent Porosity
9	IS 1528 (Part 10) : 1974 Reviewed In : 2019	Methods of sampling and physical tests for refractory materials Part 10 determination of size of refractory bricks First Revision
10	IS 1528 (Part 11) : 1993 Reviewed In : 2022	Methods of sampling and physical tests for refractory materials Part 11 determination of warpage Second Revision
11	IS 1529 : 1971 Reviewed In : 2017	Specification for blast furnace refractories for steel plants
12	IS 15895 : 2011 IEC TR 62351-90-2:2018	High Alumina Refractory Cement
13	IS 17069 : 2019	Method for Determination of Thermal Conductivity of Dense as Well as Insulating Fired Refractories Refractory Monolithics and Precast Prefired PCPF Shapes
14	IS 194 : 1950	Recommendations for refractories for railways
15	IS 2045 : 1962	Natural silimanite blocks for glass melting tanks furnaces
16	SP 37-3 : 1987 Reviewed In : 2017	Handbook for refractories Part 3 refractories for cement kiln system
17	IS 4564 : 1968 Reviewed In : 2022	Specification for fireclay nozzles
18	IS 4565 : 1968 Reviewed In : 2022	Specification for fireclay stoppers
19	IS 4801 : 1980 Reviewed In : 2017	Specification for chemically - Bonded magnesite - Chrome refractories for roof lining First Revision
20	IS 485 : 1954	Methods of sampling and testing of refractory materials tentative
21	IS 6727 : 1972 Reviewed In : 2017	Specification for fireclay checker - Bricks for open - Hearth furnace
22	IS 6728 : 1972 Reviewed In : 2022	Specification for recuperator tubes tiles and collars for soaking pits in steel plants
23	IS 7 : 1980	Moderate Heat Duty Fireclay Refractories Group B
24	IS 8966 : 1978 Reviewed In : 2022	Specification for magnesite nozzles
25	IS 8977 : 1978 Reviewed In : 2022	Specification for clay bonded graphite crucibles

### Annexure-II :List of Indian Product Standards

Sl. No.	IS No. & Year	Title
1	IS 10551 : 2005 Reviewed In : 2020	Zircon mullite refractories for glass furnace applications - Specification First Revision
2	IS 10817 : 1984 Reviewed In : 2020	Specification for bauxite for refractory industry
3	IS 10819 : 1999 Reviewed In : 2022	Chromite for refractory industry - Specification First Revision
4	IS 11036 : 1984 Reviewed In : 2022	Specification for clay graphite stopper heads
5	IS 12847 : 1997 Reviewed In : 2022	Carbon bonded silicon carbide crucibles - Specification First Revision
6	IS 12893 : 2006 ISO 1146:1988 Reviewed In : 2022 ISO 1146:1988	Pyrometric reference cones for laboratory use - Specification First Revision
7	IS 1292 : 1991 Reviewed In : 2022	Silica mortar for laying silica bricks in furnaces - Specification First Revision
8	IS 12951 : 2006 Reviewed In : 2022	Mica insulating bricks for high temperature applications - Specification First Revision



9	IS 13150 : 1991 <a href="#">Reviewed In : 2022</a>	Silica mortar for laying silica bricks in coke ovens - Specification
10	IS 14296 : 1995 <a href="#">Reviewed In : 2022</a>	Dolomite for refractory industry - Specification
11	IS 14301 : 1995 <a href="#">Reviewed In : 2022</a>	Kyanite for refractory industry - Specification
12	IS 14302 : 1995 <a href="#">Reviewed In : 2022</a>	Beach sand silimanite for refractory industry - Specification
13	IS 14303 : 1995 <a href="#">Reviewed In : 2022</a>	Magnesite for refractory industry - Specification
14	IS 14313 : 1995 <a href="#">Reviewed In : 2022</a>	70 percent alumina bricks - Specification
15	IS 14406 : 1996 <a href="#">Reviewed In : 2022</a>	Refractories for forge and heat treatment furnaces - Recommendations
16	IS 14447 : 1997 <a href="#">Reviewed In : 2022</a>	Refractories for use in foundry industry - Recommendations
17	IS 14713 : 1999 <a href="#">Reviewed In : 2022</a>	Synthetic Fused mullite and alumina grains for refractory industry - Specification
18	IS 14852 : 2000 <a href="#">Reviewed In : 2022</a>	Flaky graphite for refractory industry - Specification
19	IS 1526 : 1960 <a href="#">Reviewed In : 2022</a>	Sizes and shapes for firebricks 230 Mm Series
20	IS 15507 : 2004 <a href="#">Reviewed In : 2020</a>	Basic insulating coating material for application in tundish used in steel plants - Specification
21	IS 15508 : 2004 <a href="#">Reviewed In : 2020</a>	Refractory mass Basic Gunning for steel plant application - Specification
22	IS 15541 : 2005 <a href="#">Reviewed In : 2022</a>	Low cement and ultra low cement castables for general purposes - Specification
23	IS 1749 : 2005 <a href="#">Reviewed In : 2022</a>	Burnt magnesite refractories - Specification Third Revision
24	IS 1750 : 1995 <a href="#">Reviewed In : 2022</a>	Dead - Burned pea magnesite - Specification Third Revision
25	IS 1751 : 1984 <a href="#">Reviewed In : 2022</a>	Specification for fireclay cupola refractories Second Revision
26	IS 17699 : 2022 ISO 22286 : 2018	Standard Classification of Silicon Carbide SiC Refractories
27	IS 195 : 2005 <a href="#">Reviewed In : 2022</a>	Fireclay mortar for laying fireclay refractory bricks - Specification Fourth Revision
28	IS 2042 : 2006 <a href="#">Reviewed In : 2022</a>	Insulating bricks - Specification Second Revision
29	IS 2043 : 1984 <a href="#">Reviewed In : 2022</a>	Specification for siliceous fireclay refractories First Revision
30	IS 2044 : 2005 <a href="#">Reviewed In : 2022</a>	Mullite refractories for glass melting tank furnaces - Specification Second Revision
31	IS 3304 : 2005 <a href="#">Reviewed In : 2022</a>	Burnt magnesite - Chrome refractories for general purposes - Specification First Revision
32	IS 3305 : 2005 <a href="#">Reviewed In : 2022</a>	Burnt chrome - Magnesite refractories for general purposes - Specification First Revision
33	IS 4812 : 1996 <a href="#">Reviewed In : 2022</a>	Silica refractories for coke oven - Specification Second Revision
34	IS 4813 : 1980 <a href="#">Reviewed In : 2022</a>	Specification for chemically - Bonded chrome - Magnesiteb refractories for general purposes First Revision
35	IS 4814 : 1980 <a href="#">Reviewed In : 2022</a>	Specification for chemically - Bonded magnesite - Chrome refractories for general purposes - First Revision
36	IS 483 : 1972 <a href="#">Reviewed In : 2022</a>	Specification for fireclay refractories for oil - Fired boiler furnaces of naval ships First Revision
37	IS 484 : 1980 <a href="#">Reviewed In : 2022</a>	Specification for silica refractories for general purposes Second Revision
38	IS 6 : 1983	Moderate Heat Duty Fireclay Refractories Group A

	Reviewed In : 2020	
39	IS 7199 : 2008 Reviewed In : 2024	Blast furnace stove refractories - Specification First Revision
40	IS 8 : 1994 Reviewed In : 2022	High heat duty fireclay refractories - Specification Fgth Revision
41	IS 8953 : 2006 Reviewed In : 2022	62 percent alumina bricks and blocks for blast furnace - Specification First Revision
42	IS 9010 : 1978 Reviewed In : 2022	Specifictign for super heat duty fireclay refractories
43	IS 9930 : 2005 Reviewed In : 2020	Zircon refractories for glass furnace applications - Specification First Revision