

INTERFIREBRICK

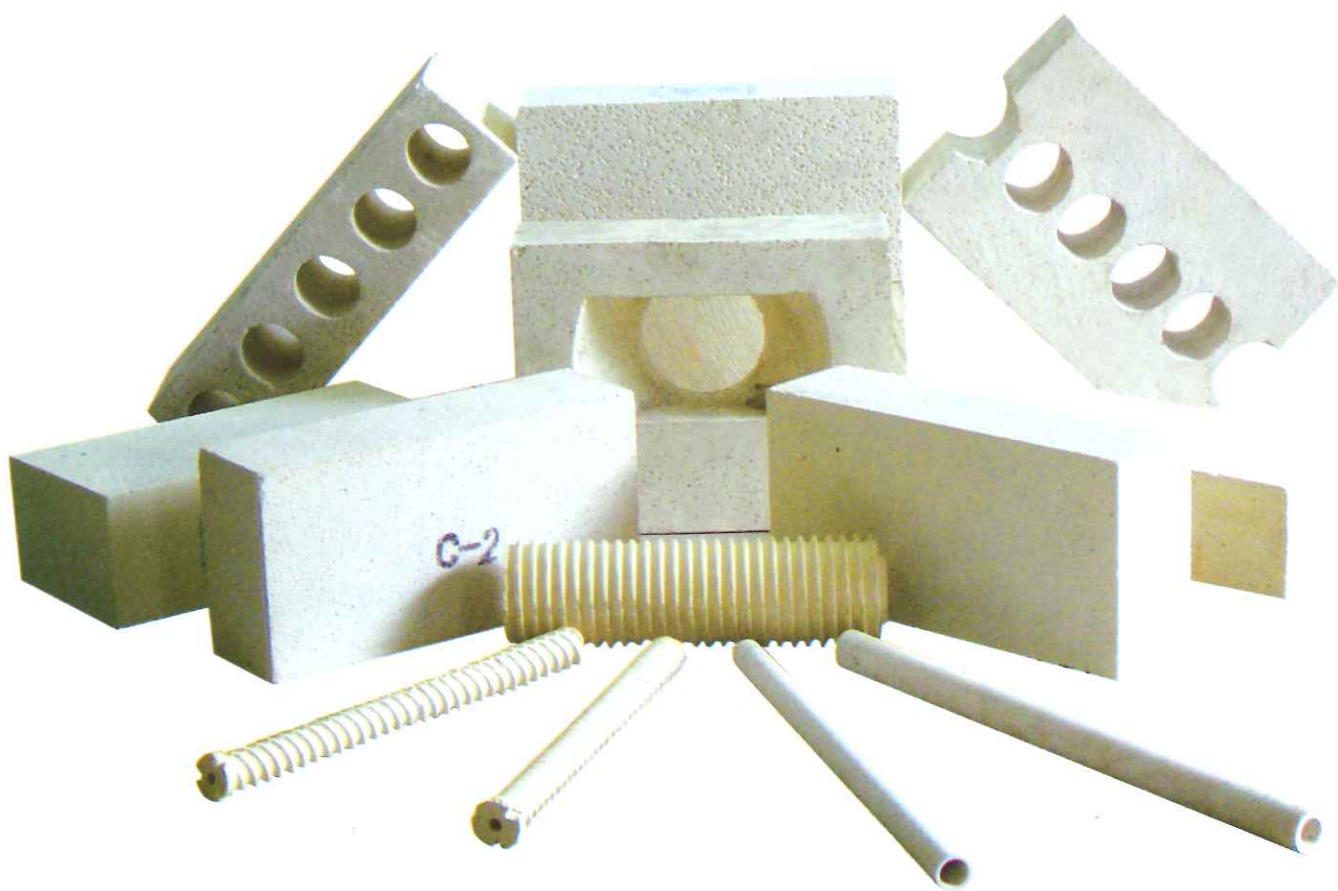


REFRACTORY CO.,LTD.



Insulating Firebrick

อิฐฉนวนทนไฟ



PROPERTIES	BRAND	INSULATING FIREBRICK					IFB-7
	RPC-2	B-1	B-2	C-1	C-2		
Physical Data (Typical)							
Maximum Service Temperature, °C	1400	900	1000	1300	1400	1500	
Bulk Density, gm/cc	1.1-1.2	0.65-0.70	0.75-0.80	0.75-0.80	0.9-0.95	0.75-0.80	
Apparent Porosity, %	50-55	70-75	70-75	70-72	65-70	70	
Cold Crushing Strength, kg/cm ²	100-110	10-15	20-30	30-40	45-60	10-20	
Thermal Conductivity, Kcal/hr.m. °C at 350 °C	-	0.17	0.18	0.30	0.38	0.20	
Chemical Analysis, % Approx.							
Silica (SiO ₂)	36.50	54.2	51.3	50.3	34.6	38	
Alumina (Al ₂ O ₃)	57.0	36.5	39.1	42.8	60.2	52	
Iron Oxide (Fe ₂ O ₃)	0.75	3.3	3.0	2.7	1.4	1.2	

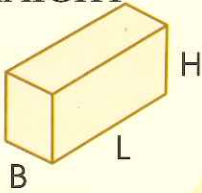
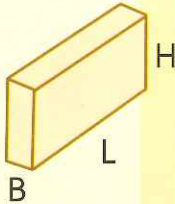
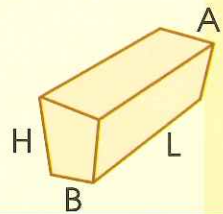
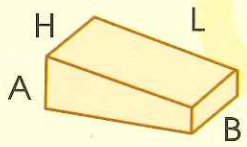
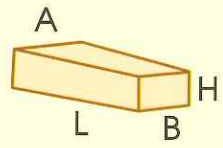


SK SERIES FIRECLAY AND HIGH ALUMINA BRICKS

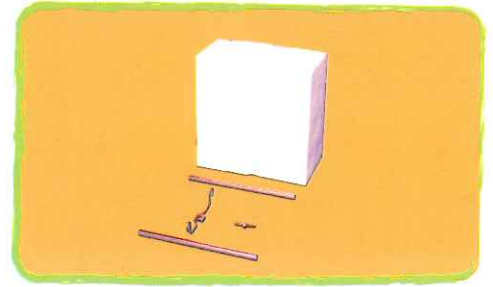
PROPERTY	BRAND	SK-30	SK-32	SK-34	SK-36	SK-38	BA-85
Physical Properties							
Refractoriness (SK)		30	32	34	36	38	38
Bulk Density (gm/cc)		1.95-2.00	2.0-2.1	2.1-2.2	2.3-2.4	2.5-2.6	2.7-2.8
Apparent Porosity (%)		22-25	20-24	18-22	19-22	21-25	21-22
Modulus Of Rupture (kg/cm ²)		40-60	60-80	70-100	80-110	90-110	100-150
Cold Crushing Strength (kg/cm ²)		200-300	200-300	200-400	300-450	400-750	700-900
Permanent Linear Change (%)		-0.2 to -0.6	-0.1 to -0.4	0.0 to -0.3	+0.5 to +1.0	+0.5 to +1.0	+0.5 to +1.0
After Heating At, °C		1400	1400	1400	1600	1600	1700
Chemical Analysis, % Approx							
Silica (SiO ₂) (%)		63.5	58.0	52.3	34.0	13.0	11.0
Alumina (Al ₂ O ₃) (%)		32.3	36.4	43.5	60.5	82.3	84.2
Iron Oxide (Fe ₂ O ₃) (%)		2.0	1.8	1.6	1.5	1.3	1.4
APPLICATION		GENERAL KILN FURNACE		CEMENT & LIME KILN TUNDISH & LADLE TANK FOR STEEL INDUSTRY GENERAL KILN			



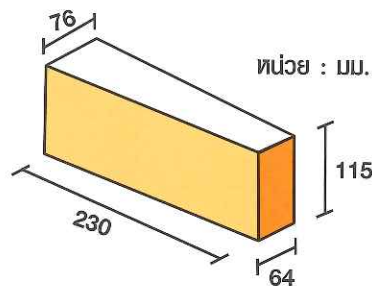
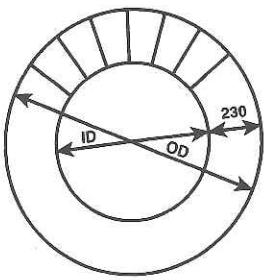
STANDARD REFRACTORY BRICKS

DESCRIPTION SHAPE	BRICK NO.	DIMENSION IN MM.			
		A	B	H	L
STRAIGHT 	ST-76	76	115	230	
	ST-64	64	115	230	
SPLIT 	SP-50	50	115	230	
	SP-38	38	115	230	
	SP-32	32	115	230	
	SP-25	25	115	230	
SIDE ARCH 	SA-70	76	70	115	230
	SA-64	76	64	115	230
	SA-50	76	50	115	230
END ARCH 	EA-70	76	70	115	230
	EA-64	76	64	115	230
	EA-50	76	50	115	230
KEY 	KE-102	115	102	76	230
	KE-89	115	86	76	230
	KE-76	115	76	76	230

CERAMIC FIBER เซรามิคไฟเบอร์



ตารางคำนวณปริมาณการใช้อิฐทนไฟ รูปทรง หัวชวาน (END ARCH BRICK)

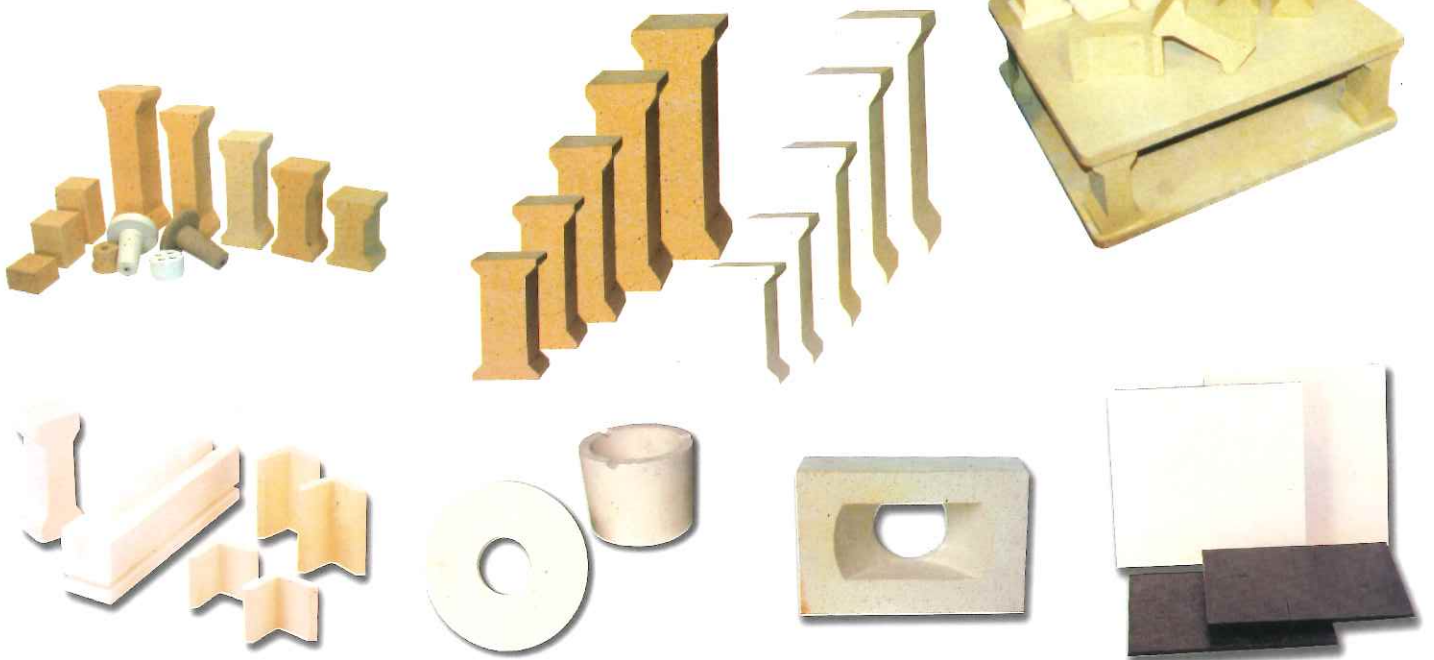


ID = เส้นผ่าศูนย์กลางภายใน (INSIDE DIAMETER)
OD = เส้นผ่าศูนย์กลางภายนอก (OUTSIDE DIAMETER)

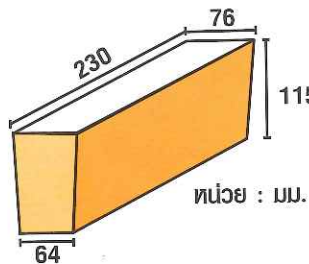
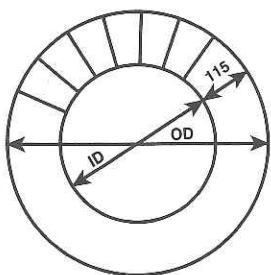
OD (ม.)	ID (ม.)	จำนวนก้อน/วง PCS./RING	เบอร์อิฐ (BRICK NO.)		
			SA-70	SA-64	SA-50
5.98	5.52	241	241	-	-
5.80	5.34	234	226	8	-
5.60	5.14	226	210	16	-
5.40	4.94	218	194	24	-
5.20	4.74	210	178	32	-
5.00	4.54	201	162	39	-
4.80	4.34	193	146	47	-
4.60	4.14	185	130	55	-
4.40	3.94	177	114	63	-
4.20	3.74	169	97	72	-
4.00	3.54	161	81	80	-
3.80	3.34	153	65	88	-
3.60	3.14	145	49	96	-
3.40	2.94	137	33	104	-
3.20	2.74	129	17	112	-
3.00	2.54	122	-	122	-
2.80	2.34	113	-	106	7
2.60	2.14	105	-	91	14
2.40	1.94	97	-	77	20
2.20	1.74	89	-	62	27
2.00	1.54	81	-	47	34
1.80	1.34	73	-	32	41
1.60	1.14	64	-	16	48
1.40	0.94	56	-	-	56

KILN FURNITURE

วัสดุอุปกรณ์ทนไฟและแผ่นรองเผา



ตารางคำนวณปริมาณการใช้อิฐทนไฟ รูปราง กลีบส้ม (SIDE ARCH BRICK)



ID = เส้นผ่าศูนย์กลางภายใน (INSIDE DIAMETER)
 OD = เส้นผ่าศูนย์กลางภายนอก (OUTSIDE DIAMETER)

OD (ม.)	ID (ม.)	จำนวนก้อน/วง PCS./RING	เบอร์อิฐ (BRICK NO.)		
			SA-70	SA-64	SA-50
3.00	2.77	122	122	-	-
2.80	2.57	113	106	7	-
2.60	2.37	105	90	15	-
2.40	2.17	97	73	24	-
2.20	1.97	89	57	32	-
2.00	1.77	81	41	40	-
1.80	1.57	73	25	48	-
1.60	1.37	64	10	54	-
1.40	1.17	56	-	53	3
1.20	0.97	48	-	38	10
1.00	0.77	40	-	23	17
0.70	0.47	28	-	-	28

Mortar ปูนไฟ

Key Specifications / Special Features

BRAND	MORTAR 1			MORTAR 2			Mortar for Insulating Bricks		
	HM-30	HM-32	HM-34	HM-43	HM-36	HM-38	AM-30W	AM-43W	PM-80
Physical Data (Typical)									
Refractoriness, SK (Sege Cone)	30	32	34	34	36	37	29	32	38
Approximate Amount Required per 1000,9"									
Equivalent (Thinly Troweller Joints), kgs	140-180	140-180	160-200	160-200	170-210	165-210	180-230	160-200	180-270
Approximate Amount of Water for Trowelling									
Consistency (Dry Only), Litres/50kgs	20-25	20-25	20-25				20-25	20-25	20-25
Modulus of Rupture at joints, After Drying at 110 °c,kg/cm ²							15-30	15-30	
Refractoriness Test									
Mortar does not squeeze or flow from joints When Heated at, °c	1400	1400	1600	1600	1600	1600			
Chemical Analysis, % Approx.									
Silica (SiO ₂) (%)	63.5	56.7	51.2	50.0	31.4	27.2	54.1	47.9	11.4
Alumina (Al ₂ O ₃) (%)	27.6	32.1	40.3	43.6	62.5	70.0	35.2	46.4	80.5
Iron oxide (Fe ₂ O ₃) (%)	2.2	2.0	2.0	2.0	1.9	1.2	2.0	1.9	1.5





บริษัท อินเทอร์ไฟร์บริค รีแฟตทอรี จำกัด
INTERFIREBRICK REFRACTORY CO.,LTD.

26/4 หมู่ 9 ซอย ว.ป.อ.11 (พิเศษ) ถนนเศรษฐกิจ 1 ต.สวนหลวง อ.กระทุ่มแบน จ.สมุทรสาคร 74110
โทร. 0-2429-1462, 0-2429-1463, 0-2429-1359 แฟกซ์. 0-2429-1440

รับผลิตอิฐทนไฟคุณภาพ และขนาดพิเศษ
รับซ่อมแซม ติดตั้ง และให้คำปรึกษาด้านวัสดุทนไฟ

Castable

CASTABLE คอนกรีตทนไฟ

SPECIFICATION OF CASTABLE PRODUCT



PROPERTIES	BRAND	CAST	CAST	CAST	CAST	CAST	CAST	CAST	CAST	CAST	CAST
		13	13 ES	15	15 ES	16	17 CG	18	11 LW	13 LW	18 LW
Max. Service Temperature	°C	1300	1300	1500	1500	1600	1700	1800	1100	1300	1800
Approximate Weight Required for Casting	kg/m ³	2010	2010	2200	2150	2150	2560	2720	820	1100	1450
Approximate Amount of Water Required for Casting	%	12	11.0	10.0	10.0	10.0	10.0	9.0	45	30	20
Bulk density after Drying at 110°C	kg/m ³	2070	2115	2250	2270	2240	2640	2830	1030	1320	1660
Modulus of Rupture after Drying at 110°C	kg/cm ²	55-75	60-80	50-100	60-110	60-80	70-90	100-140	5-10	20-35	25-50
Cold Crushing Strength after Drying at 110°C	kg/cm ²	350-450	350-500	250-350	400-500	300-450	300-400	550-800	25-50	75-150	100-200
Permanent Linear Change after Heating at	%	+0.5	-1.00	-0.50	-1.00	-0.20	-0.60	-0.50	0 to-1.00	0 to-1.00	0 to-1.00
	°C	1260	1260	1480	1480	1595	1705	1760	1000	1260	1760
Thermal Conductivity at 400°C	Kcal/hr.m. °C	0.52	0.52	0.82	0.82	0.93	1.40	1.56	0.15	0.31	0.71
at 600°C	Kcal/hr.m. °C	0.76	0.76	0.85	0.85	0.95	1.42	1.40	0.17	0.32	0.66
at 800°C	Kcal/hr.m. °C	0.8	0.80	0.87	0.87	0.98	1.20	1.29	0.19	0.34	0.63
at 1000°C	Kcal/hr.m. °C								0.21	0.35	0.63
Chemical Composition : % Approx.											
Alumina (Al ₂ O ₃)	%	28.4	32.8	48.0	53.0	59.6	87.8	93.8	48.0	37.0	94.0
Silica (SiO ₂)	%	58.8	46.6	45.1	40.0	33.2	5.0	0.2	37.5	45.0	0.5
Iron Oxide (Fe ₂ O ₃)	%	3.5	3.0	0.9	0.9	1.4	1.2	0.3	0.5	4.0	0.5
Classification :											
ASTM Designation		C401-77	C401-77	C401-77	C401-77	C401-77	C401-77	C401-77	C401-77	C401-77	C401-77
		CLASS-B	CLASS-B	CLASS-D	CLASS-D	CLASS-E	CLASS-F	CLASS-G	CLASS-O		CLASS-B

