MCC ENGINERING &CONSTRUCTION

Ceramic.Refractories.Insulation

INSULATION FIREBRICKS (DJM SERIES)

Typical Parameters

DJM series mullite insulating brick							
Description	**DJM 20**	**DJM 23**	**DJM 24**	**DJM 26**	**DJM 28**	**DJM 30**	**DJM 32**
Classification Temp (℃)	1200	1260	1300	1430	1540	1650	1760
Bulk Density(kg/cm^3)	500	600	700	800	900	1000	1250
Crushing Strength (Mpa)	1.1	1.2	1.4	1.6	2.1	2.5	3.5
Modulus of Rupture (Mpa)	1.0	0.9	1.2	1.4	1.6	2.1	2.1
Permanent linear change (CT-30℃x24h)%	0.5	0.5	0.6	0.4	0.5	0.9	0.9
Reversible thermal expansion at 1100℃	0.5	0.5	0.6	0.7	0.8	0.9	1.1

DJM series mullite insulating brick

Description		DJM 20	DJM 23	DJM 24	DJM 26	DJM 28	DJM 30	DJM 32
Thermal conductivity (W/m.k)	400 ℃	0.12	0.12	0.14	0.27	0.32	0.41	0.49
	600 ℃	0.14	0.14	0.16	0.29	0.34	0.43	0.5
	800 ℃	0.16	0.17	0.18	0.31	0.36	0.44	0.51
	1000 ℃	0.18	0.19	0.2	0.33	0.38	0.45	0.53
	1200 ℃	-	-	-	0.3	0.41	0.47	0.56
Chemical Analysis(%)	Al_2O_3	37	37	44.5	58	67	73	77
	$Si0_2$	47	44.4	41.2	39.1	31	25.1	21.5
	Fe_2O_3	0.7	0.7	0.7	0.7	0.6	0.5	0.4
Standard Size	230x114x65/75mm or customized size							

MCC ENGINERING &CONSTRUCTION

Ceramic.Refractories.Insulation

CHAMOTTE INSULATION FIREBRICK

Typical Parameters

CHAMOTTE Series insulating FireBrick								
Description	**CMT 15**	**CMT 13**	**CMT 10**	**CMT 09**	**CMT 08**	**CMT 07**	**CMT 06**	**CMT 05**
Density (kg/cm^3)	1500	1300	1000	900	800	700	600	500
Compressive strength (Mpa)	60	45	30	25	25	20	15	12
Linear change Cx12h (%)	1400	1400	1350	1300	1250	1250	1200	1150
Thermal conductivity W/(m.k) 350±25℃≤	0.7	0.6	0.5	0.4	0.35	0.35	0.25	0.25

MCC ENGINERING &CONSTRUCTION

Ceramic.Refractories.Insulation

LIGHT WEIGHT HIGH ALUMINA INSULATING FIREBRICK

Typical Parameters

LIGHT WEIGHT HIGH ALUMINA INSULATING BRICK							
Description	**LWHA 10**	**LWHA 09**	**LWHA 08**	**LWHA 07**	**LWHA 06**	**LWHA 05**	**LWHA 04**
Al_2O_3	≥48%						
Fe_2O_3	≤2%						
Density (Kg/cm^3)	1000	900	800	700	600	500	400
Compressive strength (MPa)	4	3.5	3.0	2.5	2.0	1.5	0.8
Linear change Cx12h (%)≤	1400	1400	1400	1350	1350	1250	1250
Thermal conductivity W/(m.k) 350±25℃	0.5	0.45	0.35	0.35	0.3	0.25	0.2

MCC ENGINERING &CONSTRUCTION

Ceramic.Refractories.Insulation

LOW IRON INSULATING FIREBRICK
Typical Parameters

Description	LOW IRON INSULATING BRICK					
	LI45	LI48	LI48a	LI50	LI50a	LI52
Al_2O_3 (%)≥	45	48	48	50	50	52
Fe_2O_3 (%)≤	0.7	0.7	0.6	0.6	0.5	0.5
Density (kg/cm^3)	600	800	1000	2000	600	800
Compressive strength (MPa)	2.0	3.0	4.2	25	2.0	3.5
Linear change ℃x12h (%)≤	1300 0.5	1300 0.4	1300 0.4	1300 0.2	1350 0.5	1350 0.5
Thermal conductivity W/(m.k) 350±25℃	0.25	0.35	0.45	1.6	0.25	0.35
Max Operating temperature (℃)	1300	1300	1350	1350	1350	1350