



# MAHAVIR REFRACTORIES CORPORATION

## Typical Technical Parameters

### INSULATING BRICKS

Brand Product	Al <sub>2</sub> O <sub>3</sub> % Min.	Fe <sub>2</sub> O <sub>3</sub> % Max.	B.D gms/cc Min.	A.P. % Min.	C.C.S. kgs/cm <sup>2</sup> Min.	P.L.C %at °C/hrs Min.	Thermal conductivity KCal/m/hrs/350 °C Max.	Service Temp. in °C	I.S. Equavalent
RH-INS-35 LWI #	35	2.0	0.6 to 0.70	70±2	10	2% 1200 °C/2hrs	0.20	1250	I.S. 2042 Type III
RH-INS-35 CPI #	35	2.0	0.75 to 0.85	65±2	15	2% 1250 °C/2hrs	0.22	1300	
RH-INS-35 #	35	1.8	0.9 to 1.0	65±2	20	2% 1250 °C/2hrs	0.27	1300	I.S. 2042 Type II
RH-INS HFI #	35	2.0	1.0 to 1.1	60	30	2% 1200 °C/2 hrs	0.28	1200	
RH-INS HFK #	45	1.5	0.95 to 1.05	58	30	2% 1350 °C/2hrs	0.30	1400	I.S. 2042 Type I

# Bricks are offered from Dhandbad Region.

PARTICULARS	MICA			LIGHT WEIGHT FIRE CLAY COLD FACE HOT FACE			HIGH ALUMINA
	MRM 500*	MRM 600*	MRM 700*	MRCF III*	MRIB II*	MRHF I*	MRHA 40*
Bulk Density gm / cc	0.475-0.53	0.57-0.63	0.700	0.75-0.80	0.85-0.95	1.0-1.1	1.1-1.2
Apparant Porosity %	80	75	72	70	65	60	60
Cold Compressive Strength Kg/cm <sup>2</sup>	7	9	12	15	18-24	40	40
Thermal conductivity in K. Cal at Hot Face Temp.							
400°C	0.11	0.14	0.16	0.18	0.21	0.24	0.26
600°C	0.14	0.16	0.175	0.19	0.23	0.28	0.31
800°C	0.16	0.175	0.19	0.20	0.25	0.34	0.35
P.L.C. % at °C for 5 hours	(-) 1.5 at 950°C	(-) 1.5 at 1000°C	(-) 1.5 at 1000°C	(-) 1.5 at 1000°C	(-) 1.5 at 1100°C	(-) 1.5 at 1200°C	(+) 1.5 at 1200°C
Maximum Safe Working Temp. °C	1000	1050	1050	1100	1200	1350	1500
P.C.E.	—	—	—	—	27-28	30	32
Al <sub>2</sub> O <sub>3</sub> %	36	36	36	28	30	32	42
SiO <sub>2</sub> %	48	48	48	60	62	60	50
Fe <sub>2</sub> O <sub>3</sub> %	2	2	2	1.5	1.5	1.5	1

\* Bricks are offered from Bhilwara Region.

- NOTE: 1) Data given are typical of machine pressed standard bricks.  
 2) Values of A.P.% and CCS (kg/cm<sup>2</sup>) are arthmatic mean of individual results.  
 3) Size tolerance ± 1.5% or 2 mm whichever is greater.  
 4) Besides the products listed in the catalogue, we are having sound technical expertise to meet the customers requirements.