

**FIRE MAN REFRACTORIES PRIVATE LIMITED**

**FIREBRICKS**

**TECHNICAL DATA SHEET**

**BRICKS  
FIREMAN BRAND**

**FRL 303**

**FRL 403**

**FRL 503**

**FRL 603**

**FRL 703**

**CHEMICAL PROPERTIES**

Alumina as	Al <sub>2</sub> O <sub>3</sub>	% min	30	40	50	60	70
Iron as	Fe <sub>2</sub> O <sub>3</sub>	% max	3	3	3	3	3

**PHYSICAL PROPERTIES**

Porosity as	A.P	% max	27	25	23	23	23
Density as	B.D	Gm/cc Min	1.9	2	2.3	2.45	2.55
Strength as	C.C.S	Kg/cm <sup>2</sup> min	250	300	350	400	450

**THERMAL PROPERTIES**

Thermal Level	P.C.E	OC Min	28	30	32	34	36
Thermal Load	R.U.L	C Min at 2 kg	1320	1360	1380	1420	1450
Thermal Change	P.L.C	at deg C /hrs % max	1340/+/ -2.0	1380/+/ -2.0	1420/+/ -2.0	1450/+/ -2.0	1500/+/-2.0
Service Temp C		Max C	1350	1400	1450	1480	1520

**SIZE TOLLERANCE+/-1.5% OR 2 mm WHICH EVER GREATER.**