

# Special Insulation Bricks

| Product   | Classification temperature | Bulk Density (gm/cm³) | CCS (kg/cm²) | PLC (%)       |       | Thermal conductivity (W/m°K) at mean temperature of |      | Al <sub>2</sub> O <sub>3</sub> (%) | Fe <sub>2</sub> O <sub>3</sub> (%) |
|-----------|----------------------------|-----------------------|--------------|---------------|-------|-----------------------------------------------------|------|------------------------------------|------------------------------------|
| VRPL HF23 | 1300°C                     | 0.55                  | 10           | 1250°C/24hrs. | ± 0.6 | 400°C                                               | 0.18 | 42.00                              | 0.65                               |
|           |                            |                       |              |               |       | 600°C                                               | 0.20 |                                    |                                    |
|           |                            |                       |              |               |       | 800°C                                               | 0.22 |                                    |                                    |
|           |                            |                       |              |               |       | 1000°C                                              | 0.24 |                                    |                                    |
| VRPL HF26 | 1450°C                     | 0.70                  | 16           | 1350°C/24hrs. | ± 0.5 | 400°C                                               | 0.25 | 58.00                              | 0.70                               |
|           |                            |                       |              |               |       | 600°C                                               | 0.27 |                                    |                                    |
|           |                            |                       |              |               |       | 800°C                                               | 0.29 |                                    |                                    |
|           |                            |                       |              |               |       | 1000°C                                              | 0.31 |                                    |                                    |
| VRPL HF28 | 1550°C                     | 1.00                  | 25           | 1450°C/24hrs. | ± 0.5 | 400°C                                               | 0.41 | 60.00                              | 1.00                               |
|           |                            |                       |              |               |       | 600°C                                               | 0.46 |                                    |                                    |
|           |                            |                       |              |               |       | 800°C                                               | 0.51 |                                    |                                    |
|           |                            |                       |              |               |       | 1000°C                                              | 0.56 |                                    |                                    |
| VRPL HF30 | 1650°C                     | 1.10                  | 40           | 1550°C/24hrs. | ± 0.5 | 400°C                                               | 0.46 | 72.00                              | 0.80                               |
|           |                            |                       |              |               |       | 600°C                                               | 0.51 |                                    |                                    |
|           |                            |                       |              |               |       | 800°C                                               | 0.56 |                                    |                                    |
|           |                            |                       |              |               |       | 1000°C                                              | 0.60 |                                    |                                    |
| VRPL HF32 | 1700°C                     | 1.30                  | 60           | 1600°C/24hrs. | ± 0.5 | 400°C                                               | 0.58 | 72.00                              | 0.60                               |
|           |                            |                       |              |               |       | 600°C                                               | 0.63 |                                    |                                    |
|           |                            |                       |              |               |       | 800°C                                               | 0.67 |                                    |                                    |
|           |                            |                       |              |               |       | 1000°C                                              | 0.70 |                                    |                                    |
| VRPL P75  | 1400°C                     | 0.75                  | 25           | 1350°C/24hrs. | ± 1.5 | 400°C                                               | 0.26 | 40.00                              | 1.50                               |
|           |                            |                       |              |               |       | 600°C                                               | 0.28 |                                    |                                    |
|           |                            |                       |              |               |       | 800°C                                               | 0.31 |                                    |                                    |
|           |                            |                       |              |               |       | 1000°C                                              | 0.35 |                                    |                                    |
| VRPL P80  | 1350°C                     | 0.80                  | 25           | 1300°C/24hrs. | ± 1.0 | 400°C                                               | 0.28 | 35.00                              | 1.50                               |
|           |                            |                       |              |               |       | 600°C                                               | 0.30 |                                    |                                    |
|           |                            |                       |              |               |       | 800°C                                               | 0.34 |                                    |                                    |
|           |                            |                       |              |               |       | 1000°C                                              | 0.38 |                                    |                                    |

Note: The above figures are typical data as determined through Indian Standard Testing Methods and pertains to most commonly procured commercial sizes. These will be subject to reasonable variations for tailor made and non-standard sizes. Materials can be manufactured to suit customer's specifications.