

| Description | Datasheet             | Unit | Testing Results |  |
|-------------|-----------------------|------|-----------------|--|
|             | Acid Resistant Bricks |      |                 |  |

### PHYSICAL PROPERTY

|                          |                    |                    |      |      |
|--------------------------|--------------------|--------------------|------|------|
| Bulk Density             | 2.20 Minimum       | kg/cm <sup>3</sup> | 2.2  | 2.21 |
| Water Absorption         | 2.00 Maximum       | %                  | 1.23 | 1.06 |
| Flexural Strength        | 100 Minimum        | kg/cm <sup>2</sup> | 208  | 229  |
| Cold Crushing Strength   | 700 Minimum        | kg/cm <sup>2</sup> | 981  | 1171 |
| Thermal Shock Resistance | >17 cycles (450 C) | -                  | >100 | >100 |
| Thermal Conductivity     | 1.15               | w/mo K at 400 C    | -    | -    |
| Acid solubility          | 3.00 Maximum       | %                  | 1.29 | 1.83 |

### CHEMICAL PROPERTY

|  |          |   |      |      |
|--|----------|---|------|------|
| - Al <sub>2</sub> O <sub>3</sub>       | 20 to 25 | % | 23.5 | 23.6 |
| - SiO <sub>2</sub>                     | 65 to 70 | % | 66.4 | 66.4 |
| - Fe <sub>2</sub> O <sub>3</sub>       | 2.00 Max | % | 0.7  | 0.7  |
| - TiO <sub>2</sub>                     | 1.00 Max | % | 0.71 | 0.64 |
| - K <sub>2</sub> O + Na <sub>2</sub> O | 3.00 Max | % | 2.74 | 2.15 |

### AS PER IS-4457

| DIMENSIONS | REFERENCE SIZE | ALLOWED TOLERANCE |
|------------|----------------|-------------------|
| LENGTH     | 230 MM         | ±3.5 MM           |
| WIDTH      | 115 MM         | ±2.0 MM           |
| THICKNESS  | 20 MM          | ±1.0 MM           |