



Spinel refractories  
Technical data sheet  
SPC80 LI



| General information                     |           |                        |           |         |                |                            |
|-----------------------------------------|-----------|------------------------|-----------|---------|----------------|----------------------------|
| Product properties                      |           | Average Value          |           |         | limited values |                            |
| Classification                          |           | High Alumina           |           |         |                |                            |
| Main raw material                       |           | high alumina           |           |         |                |                            |
| Bonding type                            |           | Hydraulic              |           |         |                |                            |
| Grain size                              |           |                        |           |         |                |                            |
| Working method                          |           | casting                |           |         |                |                            |
| Bulk Density $k\,g/m^3$ ASTM C20        |           | 2600                   |           |         |                |                            |
| Liquid addition                         |           | water/9-10%            |           |         |                |                            |
| Storage limit                           |           | 6month / Dry Condition |           |         |                |                            |
| Max Service Temp                        |           | 1700°C                 |           |         |                |                            |
| CCS @ 1500 °C ASTM C133 $(k\,g/cm^2)$   |           |                        |           |         | 450            | 500                        |
| CCS @ 110 °C ASTM C133 $(k\,g/cm^2)$    |           |                        |           |         | 300            | 400                        |
| Linear Change%@110°C                    |           | Negligible             |           |         |                |                            |
| Linear Change%@1500°C                   |           |                        |           |         |                |                            |
| Modulus of Rupture@110°C $(k\,g/cm^2)$  |           |                        |           |         | 80             | 100                        |
| Modulus of Rupture@1500°C $(k\,g/cm^2)$ |           |                        |           |         | 120            | 180                        |
| Chemical analysis(Typical /Approximate) |           |                        |           |         |                |                            |
| $Al_2O_3$ %                             | $SiO_2$ % | $Fe_2O_3$ %            | $TiO_2$ % | $N_2$ % | $CaO$ %        | $(Na_2O + K_2O + Li_2O)\%$ |
| 82-87                                   | 3.5-6.5   | 1.0-2.0                | 2.0-4.0   | -       | 3.5-6.5        | -                          |