



Spinel refractories  
Technical data sheet  
SPC 55



| General information                     |           |                        |           |         |                |                  |
|-----------------------------------------|-----------|------------------------|-----------|---------|----------------|------------------|
| Product properties                      |           | Average Value          |           |         | limited values |                  |
| Classification                          |           | Medium Alumina         |           |         |                |                  |
| Main raw material                       |           | chamotte               |           |         |                |                  |
| Bonding type                            |           | Hydraulic              |           |         |                |                  |
| Grain size                              |           | 0-5mm                  |           |         |                |                  |
| Working method                          |           | Casting                |           |         |                |                  |
| Bulk Density $kg/m^3$ ASTM C20          |           | 2290                   |           |         |                |                  |
| Liquid addition                         |           | Water                  |           |         |                |                  |
| Storage limit                           |           | 6month / Dry Condition |           |         |                |                  |
| Max Service Temp                        |           | 1540°C                 |           |         |                |                  |
| CCS @ 1480 °C ASTM C133 $(kg/cm^2)$     |           |                        |           |         | 550            | 750              |
| CCS @ 110 °C ASTM C133 $(kg/cm^2)$      |           |                        |           |         | 400            | 600              |
| Linear Change%@110°C                    |           | Negligible             |           |         |                |                  |
| Linear Change%@1480°C                   |           |                        |           |         | -0.80          | 0.50             |
| Modulus of Rupture@110°C $(kg/cm^2)$    |           |                        |           |         | 80             | 140              |
| Modulus of Rupture@1480°C $(kg/cm^2)$   |           |                        |           |         | 60             | 90               |
| Chemical analysis(Typical /Approximate) |           |                        |           |         |                |                  |
| $Al_2O_3$ %                             | $SiO_2$ % | $Fe_2O_3$ %            | $TiO_2$ % | $MgO$ % | $CaO$ %        | $(Na_2O + K_2O)$ |
| 48-55                                   | 39-42     | 0.5-2.5                | 0.5-3.5   | -       | 0.5-5.5        | -                |