



38-42% Alumina Refractories

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|-------------------|-----------------|
| DATA SHEET | April-19 |
|-------------------|-----------------|

| SR NO | CLASSIFICATION | IK SDS | IK SDE |
|-------|--|------------------------|---------------------|
| | | SUPER DUTY SPECIALS | SUPER DUTY EXTRA |
| 1 | Apparent Porosity (%) | 20 | 18 |
| 2 | Bulk Density (g/ml) | 2.10 | 2.2 |
| 3 | Cold Crushing Strength(MN/m ²) | 550 | 500 |
| 4 | Permanent Linear Change (%) | | |
| | 2h @ 1400 °C | -0.1 | -0.3 |
| | 2h @ 1500 °C | -0.5 | -0.5 |
| 5 | Thermal Expansion (%) 20 – 1200 °C | 0.6 | 0.6 |
| 6 | Thermal Conductivity (w/mK) Mean Temperature 900 °C | 1.47 | 1.47 |
| 7 | Chemical Analysis (%) | | |
| | SiO ₂ | 52.5 | 50.5 |
| | TiO ₂ | 1.5 | 2.1 |



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|--|--------------------------------|-----|-----|
| | Fe ₂ O ₃ | 2.5 | 2.0 |
| | Al ₂ O ₃ | 42 | 43 |
| | CaO | 0.3 | 0.2 |
| | MgO | 0.5 | 0.3 |
| | K ₂ O | 0.8 | 0.6 |
| | Na ₂ O | 0.1 | 0.1 |

| | | | |
|---|--------------|-----------|----------------------|
| 8 | PRODUCT BASE | FIRE CLAY | ENHANCED FIRECLAY |
|---|--------------|-----------|----------------------|