



**Dakshinak Minerals LLP**

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## DK - ZIRCON

### Zircon "A" Grade

| Chemical Composition (Typical)     |       |
|------------------------------------|-------|
| Name of Chemical                   | %     |
| ZrO <sub>2</sub> +HfO <sub>2</sub> | 66.34 |
| SiO <sub>2</sub>                   | 32.47 |
| Al <sub>2</sub> O <sub>3</sub>     | 0.727 |
| Fe <sub>2</sub> O <sub>3</sub>     | 0.112 |
| TiO <sub>2</sub>                   | 0.108 |
| V <sub>2</sub> O <sub>5</sub>      | 0.003 |
| P <sub>2</sub> O <sub>5</sub>      | 0.076 |
| U(ppm)                             | 138   |
| Th (ppm)                           | 165   |

| Mineralogical Analysis |       |
|------------------------|-------|
| Minerals               | %     |
| Zircon                 | 98.87 |
| Rutile                 | 00.13 |
| Sillimanite            | 00.88 |
| Quartz                 | 00.12 |

| Particle Size Analysis |       |            |
|------------------------|-------|------------|
| Mesh                   | MM    | Retained % |
| 40                     | 0.425 | 0.24       |
| 50                     | 0.300 | 12.54      |
| 60                     | 0.250 | 22.30      |
| 70                     | 0.212 | 19.60      |
| 80                     | 0.180 | 17.46      |
| 100                    | 0.150 | 15.86      |
| 120                    | 0.125 | 8.98       |
| 140                    | 0.106 | 2.26       |
| Pan                    |       | 0.76       |

### Applications / Uses

1. Conversion to Zircon flour, Opacifier and also directly used in Ceramic Industry and foundry
2. Fused zirconia, zirconium chemicals, chemical zirconia & zirconium metal



\*DK - ZIRCON sand is a natural product and hence it may be slightly varied in the chemical analysis content and particle size distribution expected



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DK - ZIRCON  
Zircon “B” Grade

| Chemical Composition (Typical) |       |
|--------------------------------|-------|
| Name of Chemical               | %     |
| ZrO2 +HfO2                     | 65.37 |
| SiO2                           | 32.62 |
| Al2O3                          | 1.370 |
| Fe2O3                          | 0.122 |
| TiO2                           | 0.228 |
| V2O5                           | 0.004 |
| P2O5                           | 0.078 |
| U(ppm)                         | 126   |
| Th (ppm)                       | 164   |

| Mineralogical Analysis |       |
|------------------------|-------|
| Minerals               | %     |
| Zircon                 | 98.14 |
| Rutile                 | 00.26 |
| Sillimanite            | 01.46 |
| Quartz                 | 00.14 |

| Particle Size Analysis |       |            |
|------------------------|-------|------------|
| Mesh                   | MM    | Retained % |
| 40                     | 0.425 | 0.24       |
| 50                     | 0.300 | 12.54      |
| 60                     | 0.250 | 22.30      |
| 70                     | 0.212 | 19.60      |
| 80                     | 0.180 | 17.46      |
| 100                    | 0.150 | 15.86      |
| 120                    | 0.125 | 8.98       |
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