



**Bakony Ipari Kerámia Kft.**

**Bakony Technical Ceramics Ltd.**

## MATERIAL DATA SHEET

| Material name                            |                        | B-95A     |
|------------------------------------------|------------------------|-----------|
| Properties                               | units                  |           |
| Al <sub>2</sub> O <sub>3</sub> - content | (m/m) %                | 95        |
| Na <sub>2</sub> O - content              | (m/m) %                | 0,3       |
| Bulk density                             | g/cm <sup>3</sup>      | min. 3,65 |
| Open porosity                            | %                      | 0         |
| Compressive strength                     | MPa                    | 1800      |
| Bending strength                         | MPa                    | 280       |
| Vickers Hardness                         | Hv 10                  | min. 1100 |
| Young's Modulus                          | GPa                    | 300       |
| Coefficient of linear expansion          |                        |           |
| 20 to 200 °C                             | x 10 <sup>-6</sup> / K | 5 - 6     |
| 20 to 400 °C                             |                        | 6 - 7     |
| 20 to 600 °C                             |                        | 6 - 8     |
| 20 to 800 °C                             |                        | 7 – 9,5   |
| 20 to 1000°C                             |                        | 7 – 8,5   |
| Specific Heat                            | J/kg*K                 | 700 - 850 |
| Water Absorption                         | %                      | 0         |
| Thermal Conductivity (20-100°C)          | W/m*K                  | 16 - 24   |
| Electric strength                        | KV/mm                  | 10        |
| Colour                                   |                        | white     |
| Thermal shock resist                     | ΔT °C                  | 250       |

THE INFORMATION IN THIS DATA SHEET IS FOR DESIGN GUIDANCE ONLY. BAKONY TECHNICAL CERAMICS LTD. DOES NOT WARRANTY THIS DATA AS ABSOLUTE VALUES. FORMING METHODS AND SPECIFIC GEOMETRY COULD AFFECT PROPERTIES.

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