

# Sicacast<sup>®</sup>

Silicon Carbide Castable

simonsen<sup>®</sup>

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|                            |          |      |
|----------------------------|----------|------|
| <b>Max. Service Temp.:</b> | ..... °C | 1350 |
|----------------------------|----------|------|

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|---------------------------|--|--------|
| <b>Chemical Analysis:</b> | SiC..... %                             | ≥ 84.0 |
|                           | Al <sub>2</sub> O <sub>3</sub> ..... % | ≤ 5.0  |
|                           | SiO <sub>2</sub> ..... %               | ≤ 8.0  |
|                           | CaO..... %                             | ≤ 2.5  |
|                           | Fe <sub>2</sub> O <sub>3</sub> ..... % | ≤ 0.5  |
|                           | KNaO..... %                            | ≤ 0.4  |

ISO 21068-2:2008

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|                                |                    |      |
|--------------------------------|--------------------|------|
| <b>Cold Crushing Strength:</b> | @ 110°C ..... MPa  | ≥ 25 |
|                                | @ 1000°C ..... MPa | ≥ 40 |

ISO 1927-3:2012

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|                            |                    |     |
|----------------------------|--------------------|-----|
| <b>Modulus of Rupture:</b> | @ 110°C ..... MPa  | ≥ 6 |
|                            | @ 1000°C ..... MPa | ≥ 8 |

ISO 1927-3:2012

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|                       |                       |              |
|-----------------------|-----------------------|--------------|
| <b>Linear Change:</b> | @ 110°C x 24 h..... % | approx. -0.1 |
|                       | @ 1000°C x 3 h..... % | approx. -0.3 |

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|-----------------------|---------|-----|
| <b>Particle Size:</b> | .....mm | 3.0 |
|-----------------------|---------|-----|

ISO 1927-3:2012

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|----------------------|------------------------|-------|
| <b>Bulk Density:</b> | .....g/cm <sup>3</sup> | ≥ 2.5 |
|----------------------|------------------------|-------|

ISO 1927-3:2012

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|---------------------------------|-------|-----------|
| <b>Setting Characteristics:</b> | ..... | Hydraulic |
|---------------------------------|-------|-----------|

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|------------------------------|--------------------|----|
| <b>Thermal Conductivity:</b> | @ 300°C..... W/m·K | 11 |
|------------------------------|--------------------|----|

ISO 8894-2:2007

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|  |  |               |
|--|--|---------------|
| <b>Storage Life:</b> .....   | months   | 12            |
| <b>Storage:</b> .....  |  | Dry condition |
| <b>Water added actual Liters/Bag:</b> .....                                      |  | 1.75/Bag      |
| <b>Method of Application:</b> .....  |  | Vibro-Casting |
| <b>Packing:</b>  | - In double plastic bags and 1 fibre bag containing 25 kilos<br>- 1 wooden case contains 40 bags = 1,000 kilos net |               |
| <b>HS Tariff Number:</b><br>(Harmonized Commodity Description and Coding System) | .....  | 3816002000    |

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