

Chosun Refractories INCT-110S Light-Weight Castable

Category : Ceramic

Material Notes:

Information provided by Chosun Refractories via Korea Institute of Ceramic Engineering and Technology (KICET).

Order this product through the following link:

http://www.lookpolymers.com/polymer_Chosun-Refractories-INCT-110S-Light-Weight-Castable.php

| Mechanical Properties | Metric | English | Comments |
|---|---|---|------------------------|
| Modulus of Rupture | 1.44e-7 - 0.000491 GPa | 0.0000209 - 0.0711 ksi | |
| | @Temperature 110 °C, Time 86400 sec | @Temperature 230 °F, Time 24.0 hour | |
| | 0.0004905 - 0.0014715 GPa | 0.07114 - 0.21343 ksi | |
| | @Temperature 500 °C, Time 10800 sec | @Temperature 932 °F, Time 3.00 hour | |
| | 0.0014715 - 0.0024525 GPa | 0.21343 - 0.35571 ksi | |
| | @Temperature 1000 °C, Time 10800 sec | @Temperature 1830 °F, Time 3.00 hour | |
| Compressive Strength | 0.981 - 2.94 MPa | 142 - 427 psi | Cold Crushing Strength |
| | @Temperature 500 °C, Time 10800 sec | @Temperature 932 °F, Time 3.00 hour | |
| | 1.96 - 4.90 MPa | 284 - 711 psi | Cold Crushing Strength |
| @Temperature 1000 °C, Time 10800 sec | @Temperature 1830 °F, Time 3.00 hour | | |
| | 1.96 - 4.90 MPa | 284 - 711 psi | Cold Crushing Strength |
| | @Temperature 110 °C, Time 86400 sec | @Temperature 230 °F, Time 24.0 hour | |

| Thermal Properties | Metric | English | Comments |
|----------------------------------|---------------------|-------------------------------------|----------|
| Thermal Conductivity | 0.1628 W/m-K | 1.128 BTU-in/hr-ft ² -°F | |
| | @Temperature 260 °C | @Temperature 500 °F | |
| | 0.1977 W/m-K | 1.370 BTU-in/hr-ft ² -°F | |
| | @Temperature 540 °C | @Temperature 1000 °F | |
| | 0.2443 W/m-K | 1.692 BTU-in/hr-ft ² -°F | |
| | @Temperature 800 °C | @Temperature 1470 °F | |
| Maximum Service Temperature, Air | | | limited |

| Thermal Properties | 1100 °C Metric | 2010 °F English | Comments |
|--------------------|---|---|----------|
| Shrinkage | -0.800 % | -0.800 % | |
| | @Temperature 1000 °C, Time 10800 sec | @Temperature 1830 °F, Time 3.00 hour | |
| | -0.0600 % | -0.0600 % | |
| | @Temperature 110 °C, Time 86400 sec | @Temperature 230 °F, Time 24.0 hour | |

| Component Elements Properties | Metric | English | Comments |
|-------------------------------|--------|---------|----------|
| Al2O3 | 30 % | 30 % | |
| SiO2 | 37 % | 37 % | |

| Descriptive Properties | Value | Comments |
|---|--------------------|----------|
| Installation Method | Casting, Troweling | |
| Main Applications | General furnaces | |
| Material Required for Estimating (kg/?) | 800 | |
| Water Required for Casting(%) | 50-60 | |

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