

Chosun Refractories LPCT-17PI Lance Castable

Category : Ceramic , Oxide , Aluminum Oxide

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-LPCT-17PI-Lance-Castable.php

| Mechanical Properties | Metric | English | Comments |
|-----------------------|---|---|------------------------|
| Modulus of Rupture | 0.010791 GPa | 1.5651 ksi | |
| | @Temperature 110 °C, Time 86400 sec | @Temperature 230 °F, Time 24.0 hour | |
| | 0.014715 GPa | 2.1343 ksi | |
| | @Temperature 1500 °C, Time 10800 sec | @Temperature 2730 °F, Time 3.00 hour | |
| | 0.016677 GPa | 2.4188 ksi | |
| | @Temperature 1350 °C, Time 10800 sec | @Temperature 2460 °F, Time 3.00 hour | |
| Compressive Strength | 49.0 MPa | 7110 psi | Cold Crushing Strength |
| | @Temperature 110 °C, Time 86400 sec | @Temperature 230 °F, Time 24.0 hour | |
| | 68.6 MPa | 9960 psi | Cold Crushing Strength |
| | @Temperature 1500 °C, Time 10800 sec | @Temperature 2730 °F, Time 3.00 hour | |
| | 78.5 MPa | 11400 psi | Cold Crushing Strength |
| | @Temperature 1350 °C, Time 10800 sec | @Temperature 2460 °F, Time 3.00 hour | |

| Thermal Properties | Metric | English | Comments |
|----------------------------------|---|---|----------|
| Maximum Service Temperature, Air | 1700 °C | 3090 °F | limited |
| Shrinkage | -0.0900 % | -0.0900 % | |
| | @Temperature 1350 °C, Time 10800 sec | @Temperature 2460 °F, Time 3.00 hour | |
| | 0.00 % | 0.00 % | |
| | @Temperature 110 °C, Time 86400 sec | @Temperature 230 °F, Time 24.0 hour | |
| | 0.56 % | 0.56 % | |
| | @Temperature 1500 °C, | @Temperature 2730 °F, | |

| Thermal Properties | Time 10800 sec Metric | Time 3.00 hour English | Comments |
|--------------------|--------------------------|---------------------------|----------|
|--------------------|--------------------------|---------------------------|----------|

| Component Elements Properties | Metric | English | Comments |
|-------------------------------|--------|---------|----------|
|-------------------------------|--------|---------|----------|

| | | | |
|-------|------|------|--|
| Al2O3 | 87 % | 87 % | |
| SiO2 | 10 % | 10 % | |

| Descriptive Properties | Value | Comments |
|------------------------|-------|----------|
|------------------------|-------|----------|

| | | |
|--|--------------------|--|
| Installation Method | Casting, Vibrating | |
| Material Required for Estimating(kg/?) | 2,900 | |
| Water Required for Casting(%) | 6.0 | |

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