

## Chosun Refractories CRAG-L15 Shroud Nozzle

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-CRAG-L15-Shroud-Nozzle.php](http://www.lookpolymers.com/polymer_Chosun-Refractories-CRAG-L15-Shroud-Nozzle.php)

| Physical Properties | Metric    | English                   | Comments |
|---------------------|-----------|---------------------------|----------|
| Bulk Density        | 2.30 g/cc | 0.0831 lb/in <sup>3</sup> |          |
| Porosity            | 17 %      | 17 %                      |          |

| Mechanical Properties | Metric   | English  | Comments               |
|-----------------------|--|--|------------------------|
| Modulus of Rupture    | 0.006867 - 0.008829<br>GPa<br><br>@Temperature 1400 °C | 0.9960 - 1.281 ksi<br><br>@Temperature 2550 °F |                        |
| Compressive Strength  | 27.5 MPa   | 3980 psi                                       | Cold Crushing Strength |

| Thermal Properties | Metric                                   | English                                    | Comments |
|--------------------|--|--|----------|
| CTE, linear        | 2.50 μm/m-°C<br><br>@Temperature 1000 °C | 1.39 μin/in-°F<br><br>@Temperature 1830 °F |          |

| Component Elements Properties | Metric | English | Comments |
|-------------------------------|--------|---------|----------|
| Al2O3                         | 50 %   | 50 %    |          |
| SiO2                          | 16 %   | 16 %    |          |
| ZrO2                          | 1.5 %  | 1.5 %   |          |

| Descriptive Properties        | Value   | Comments |
|-------------------------------|---|----------|
| Chemical Analysis (%), FC+SiC | 29+1  |          |
| Remarks                       | High corrosion resistance, Use after preheating |          |

## Contact Songhan Plastic Technology Co.,Ltd.

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