

industries3r.com

Danville office

Industries 3R inc. 55, Road 116 West Danville (Quebec) Canada J0A 1A0 Telephone: (819) 839-2793 Fax: (819) 839-2797 Toll-free: (800) 567-2728 Email: info@industries3r.com

Montreal office

Industries 3R inc. 1479, Begin street Ville St-Laurent (Quebec) Canada H4R 1V8 Telephone: (514) 333-3971 Fax: (514) 333-7224 Email: info@industries3r.com

RSLE-501

ZIRCAR

This silica reinforced composite is in a cylindrical form. It has outstanding resistance due to its high endurance. Since it has a very low coefficient of expansion, this material offers superior resistance to thermal shock in an oxidized atmosphere.



APPLICATIONS

The RSLE-501 was designed for use as durable insulators in induction heat treating applications. It is also used in zones where temperatures may rapidly.

SPECIFICATIONS

Properties & characteristics

Temperature	1 200°C (2 192°F)
Nominal composition, wt %	
Al2 O3	65
SiO2	99.7
Other oxides	< 0.3
Organics	0
Density, g/cc (pcf)	2.1 (90)
Porosity, %	31
Color	White
Hardness, Durometer «D»	87
Charpy impact strength, ft-lb	0.8
Thermal Expansion Coeff.	
Room Temp. to 800°C (1472°F)	0.3 x 10 ⁻ 6/°C

At 2.7% consolidation	48 (7000)
Modulus of rupture**, Mpa (psi)	30 (4300)
Thermal Conductivity** ASTM C-1113 - W/r	n°K (BT/hr ft² °F/in)
200°C (392°F)	0.55 (3.8)
400°C (752°F)	0.64 (4.4)
600°C (1112°F)	0.61 (4.2)
800°C (1472°F)	0.67 (4.6)
1000°C (1832°F)	0.75 (5.2)
Volume Resistivity, ohm-cm ASTM D-257-93	7.5 x 10?
Dielectrical Strength, volts/mil	
ASTM D-149-95	43
Linear shrinkage, % ***	
24 hrs to 800°C (1472°F)	
• Length	0.1
• Width	0.1
Thickness	0
24 hrs to 1100°C (2012°F)	
• Length	4.9
• Width	4.9
• Thickness	7.9
	•

N.B. The information, details and values indicated are to the best of our know ledge. We recommend to conduct tests according to local conditions. The data is subject to some variations w ithout notice.