



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-56

ZIRCAR

The RSLE-56 is flexible(formable), and is composed of silica reinforced ceramic fiber. It molds (shapes), and cuts easily. When dried it becomes a rigid structure. Further heat treatment or exposures to process temperatures significantly increase the physical strength of this material.

With a very low thermal expansion coefficient, combined with its high temperature strength gives it thermal shock resistance not found in other structural ceramic materials. This material also has a low thermal conductivity and is resistant to corrosion. It is an excellent electrical insulator, in addition to having a high chemical purity.



APPLICATIONS

Molten non-ferrous alloys do not bond to the RSLE-56 making it useful in numerous molten metal contact applications. It can also be used in other applications such as : induction coil liners, glass furnace repairs, hot flue linings, hot press insulation, hot face insulation where gas velocity is of concern, casting tables and trough liners.

SPECIFICATIONS

Properties & characteristics

Temperature	1 200°C (2 192°F)
Nominal composition, wt %	
SiO ₂	99
Other oxides	< 1
Organics	0
LOI	2
Solids Content, % by weight	73
Density Dry, g/cc(pcf)	1.36 (84)
Porosity, %	36
Color	White
MOR, dry, psi	1100
MOR, 10 hr. to 370°C (698°F), psi	2300
MOR, 16 hr. to 1000°C (1832°F), psi	3800

Compressive strength, dry, room temp. At 8% consolidation, psi	1700
Compressive strength, 16 hr. to 1000°C (1832°F), at 7% consolidation, psi	7200
Dying shrinkage, linear (%)	2
Dying shrinkage, thickness (%)	3
Hardness, Durometer «D»	
Dry	54
10 hr. to 370°C (698°F)	70
16 hr. to 1000°C (1838°F)	83
Thermal Conductivity** ASTM C-1113 - W/m°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)

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.