



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**

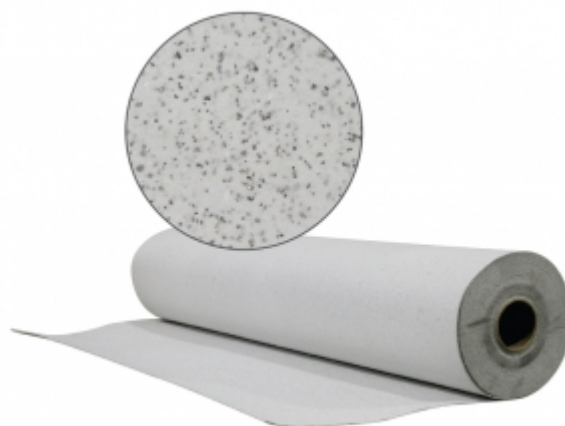
Industries 3R inc.  
1479, Begin street  
Ville St-Laurent (Quebec)  
Canada H4R 1V8

Telephone: (514) 333-3971  
Fax: (514) 333-7224  
Email: info@industries3r.com

# 3R2333

## CERAMIC PAPER

The 3R2333 expandable paper is produced from a unique blend of high-purity ceramic fibers, special additives, and organic binders. At maximum expansion of approximately 1200°F, the paper expands up to 400% of its thickness. These results demonstrate that this product is excellent for fabricating seals. It is also recommended for its excellent flexibility, outstanding handling characteristics, and high-insulating value. However, during heat up and expansion, there will be some additional out-gassing of the expandable additives.



## APPLICATIONS

This expandable ceramic paper can be used to fabricate high temperature seals and industrial furnace joints, expansion joint insulation and protection against fire.

## SPECIFICATIONS

### Physical properties

<b>Color</b>	<b>Grey</b>
<b>Nominal density ( pcf)</b>	<b>15-18</b>
<b>Thickness</b>	<b>1/16", 1/8"</b>
<b>Melting point</b>	<b>1760°C (3200°F)</b>
<b>Maximum use limit</b>	<b>1260°C (2300°F)</b>
<b>Continuous use limit</b>	<b>1150°C (2100°F)</b>
<b>Expansion Characteristics, % increase</b>	
Temperature @ 205° C (400°F) 1/8"	86
Temperature @ 540° C (1004°F) 1/8"	419
Temperature @ 790° C (1454°F) 1/8"	414
Temperature @ 980° C (1798°F) 1/8"	358
Temperature @ 205° C (400°F) 1/16"	132
Temperature @ 540° C (1004°F) 1/16"	385
Temperature @ 790° C (1454°F) 1/16"	503

---

Temperature @ 980° C (1798°F) 1/16"	530
-------------------------------------	-----

---

**N.B.** The information, details and values indicated are to the best of our knowledge. We recommend to conduct tests according to local conditions. The data is subject to some variations without notice.