

# Product Data Sheet



## Rockbrake® RB297–Roxul® 1000

Engineered mineral fibre for application in friction materials

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Rockbrake® RB297–Roxul® 1000 is an engineered mineral fibre with consistent fibre length and relatively high but also consistent shot content.

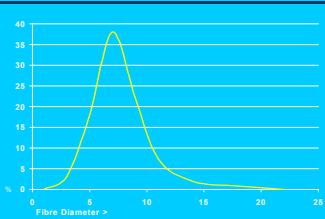
### Roxul®1000 chemistry =biosoluble chemistry

All Roxul®1000 products are worldwide exonerated from classification as a carcinogen.

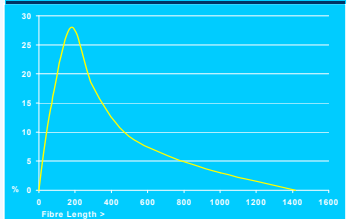
### Chemical Analysis

|                                    | Min.    | Max.    |
|------------------------------------|---------|---------|
| SiO <sub>2</sub>                   | 38 %wt  | 43 %wt  |
| Al <sub>2</sub> O <sub>3</sub>     | 18 %wt  | 23 %wt  |
| CaO+MgO                            | 23 %wt  | 28 %wt  |
| FeO                                | 4.5 %wt | 8 %wt   |
| K <sub>2</sub> O+Na <sub>2</sub> O |         | 4.5 %wt |
| Others                             |         | 6 %wt   |

Typical average fibre diameter



Typical average fibre length



### ADVANTAGES OF ROCKBRAKE® RB297–ROXUL®1000:

- Rockbrake® RB297–Roxul®1000 is consistent in terms of :
  - fibre length
  - chemical composition
  - shot content

| Parameter                  | Average/Tolerance                    | Testmethod      |
|----------------------------|--------------------------------------|-----------------|
| Non-Fibrous Material       | Norm. Max.<br>N > 125 µm 18%wt 20%wt | TV 316          |
| Fibre Length               | 300 ± 50 micron                      | TV 305          |
| Ignition Loss              | max.0.3 %wt                          | TV 302          |
| Moisture Content           | max. 0.1 %wt                         | TV 302          |
| Fibre diameter ( num. av.) | approx. 5.5 micron                   | TV 165          |
| Specific surface area      | approx. 0.20 m <sup>2</sup> /g       | TV 165          |
| Hardness                   | 6 Moh                                |                 |
| Melting Point              | > 1000 °C                            | Furnace, Visual |
| Specific Density           | 2.75 ± 0.15 g/cm <sup>3</sup>        |                 |
| Colour                     | Grey/Green                           | Visual          |

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