

# Product Data Sheet



## Rockbrake® RB215–Roxul® 1000

Engineered mineral fibre (Note Q) for application in friction materials

lapinus@lapinusfibres.com  
www.lapinusfibres.com

Rockbrake® RB215–Roxul® 1000 is a premium quality engineered mineral fibre. Its surface treatment gives an optimum bond with phenolic resins resulting in better reinforcement properties under extreme braking conditions. The percentage of non fibrous material > 125 microns is with a maximum of 0.2 % very low.

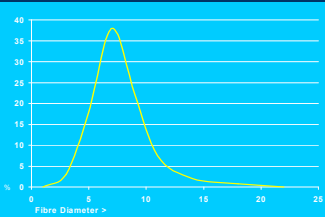
### Roxul®1000 chemistry =biosoluble chemistry

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

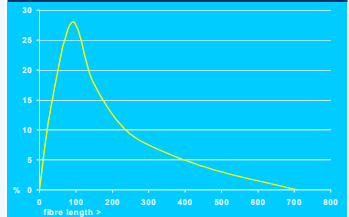
### Chemical Analysis

	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® RB215–ROXUL® 1000:

- Rockbrake® RB215–Roxul® 1000 also positively influences the following parameters :
  - material wear
  - noise and vibrations
- Rockbrake® RB215–Roxul® 1000 is consistent in quality in terms of :
  - chemical composition
  - surface treatment
  - purity
  - fibre length
- Using Rockbrake® RB215–Roxul® 1000 gives formulators the opportunity to decrease the use of other fibres in the matrix (aramid, steel, glass, ceramic, copper, brass), resulting in significant cost savings on a price per volume base.

Parameter	Average/Tolerance	Testmethod
Non-Fibrous Material	Norm. Max. N > 125 µm 0.08%wt 0.2%wt	TV 316
Fibre Length	150 ± 25 micron	TV 305
Ignition Loss	max. 0.3 %wt	TV 302
Moisture Content	max. 0.1 %wt	TV 302
Fibre diameter (mass wt. av.)	approx. 9.0 micron	TV 165
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

Author: E. Huynen (ADC)  
Issue: September 2008 (03)

Replaces Issue: January 2004 (02)  
ISO 9001 LF007.F08

"The information contained herein is based upon data considered to be accurate. However, no warranty is expressed or implied regarding the accuracy of these data, the results to be obtained from their use thereof, or any such use will not infringe upon any patent. This information is furnished only as a guide and upon the condition that the person receiving it shall make tests to determine its accuracy and suitability for his or her own purpose".