

Product Data Sheet



Rockbrake® RB210–Roxul® 1000

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

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Rockbrake® RB210–Roxul® 1000 is a premium quality engineered mineral fibre. Its surface treatment in combination with an SBR rubber gives maximal bonding with phenolic resins. This results in reduced material wear and reinforcement properties in combination with excellent NVH properties. The percentage of non fibrous material >125 microns is with a maximum of 0.2 % very low.

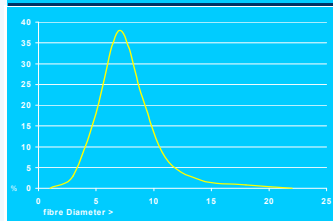
Roxul®1000 chemistry =biosoluble chemistry

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

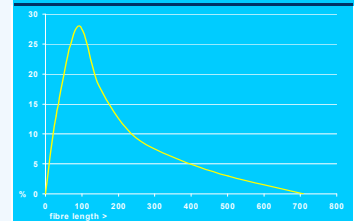
Chemical Analysis

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

Typical average fibre diameter



Typical average fibre length



ADVANTAGES OF ROCKBRAKE® RB210–ROXUL® 1000:

- Rockbrake® RB210–Roxul® 1000 positively influences the following parameters :
 - material wear
 - corrosion
 - noise and vibration
 - friction stability
 - flexibility
 - material cracking
- Using Rockbrake® RB210–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.
- Rockbrake® RB210–Roxul® 1000 is consistent in terms of :
 - chemical composition
 - purity
 - surface treatment
 - fibre length

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. 6.5 %wt	TV 302
Moisture Content	max. 3.0 %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 ² /g	TV 165
Hardness	6 Moh	
Melting Point	> 1000 °C	Furnace, Visual
Specific Density	2.6 ± 0.25 g/cm ³	
Colour	Grey/Green	Visual

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

Replaces Issue: Juli 2003 (02)
ISO 9001 LF007.F08