

# Product Data Sheet



## Rockforce® RF840–Roxul®1000

Engineered mineral fibre (Note Q) for application in Phenolic Moulding Compounds

lapinus@lapinusfibres.com  
www.lapinusfibres.com

Rockforce® RF840–Roxul®1000 is a premium quality engineered mineral fibre with a dual coating system that gives excellent interaction with phenol resins. Its surface treatment is a combination of amino silane and a cationic surfactant resulting in a significant better flexible strength and higher compression strength.

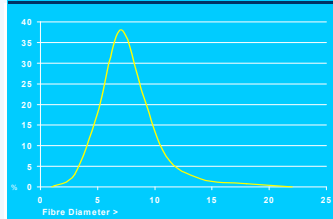
### Roxul®1000 chemistry =biosoluble chemistry

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

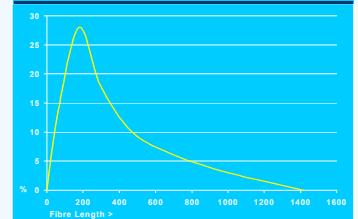
### Chemical Analysis

	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 ROCKFORCE® RF840–ROXUL®1000

- Rockforce® RF840–Roxul®1000 is a very pure fibre due to the extreme low percentage of non-fibrous material (> 125 microns is max. 0.2%) and belongs to our new generation of Roxul®1000 mineral fibres.
- Rockforce® RF840–Roxul®1000 is consistent in terms of :
  - chemical composition
  - surface treatment
  - purity
  - fibre length

Parameter	Average/Tolerance	Testmethod
Non-Fibrous Material	Norm. Max. N > 125 µm 0.1%wt 0.2%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 (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
Melting Point	> 1000 °C	
Specific Density	2.75 ± 0.15 g/cm <sup>3</sup>	
Colour	Grey/Green	Visual

Author: E. Huynen(ADC)  
Issue: July 2008 (04)

Replaces Issue: January 2006 (03)  
ISO 9001 LF007.F08