

# Product Data Sheet



## Rockforce® MS640–Roxul® 1 000

Premium quality mineral fibre (Note Q)

lapinus@lapinusfibres.com  
www.lapinusfibres.com

Rockforce® MS640–Roxul®1000 is a premium quality mineral fibre. Its surface modification gives optimum processing conditions and compatibility/reactivity with sulphur cured rubbers resulting in higher strength properties, better dimension stability and improved thermal resistance of the product.

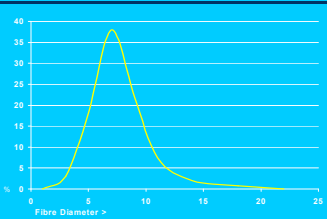
### Roxul®1000 chemistry =biosoluble chemistry

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

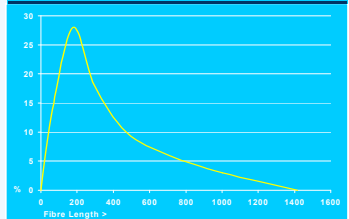
### Chemical Analysis

	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	4.5 %wt
Others	6 %wt	6 %wt

Typical average fibre diameter



Typical average fibre length



### ADVANTAGES OF ROCKFORCE® MS640–ROXUL®1000

- Rockforce® MS640–Roxul®1000 can be successfully used to optimise the stress relaxation and compression set properties in a rubber matrix used in sealant, building profiles, shock absorption materials, roofing sheets etc.
- The sulphur treatment of the Rockforce® MS640–Roxul®1000 results in a chemical reaction with the matrix giving higher tensile strength, dimension stability and thermal resistance.
- Rockforce® MS640–Roxul®1000 reduces the speed of deterioration of the rubber matrix, since engineered mineral fibres are not susceptible to ageing under the applied conditions.

Parameter	Average/Tolerance	Testmethod
Non-Fibrous Material	Norm. Max. N > 125 µm 0.6%wt 1.0%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
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: July 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".