

# Product Data Sheet



## Rockforce® MS640–Roxul® 1 000

Premium quality mineral fibre

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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.

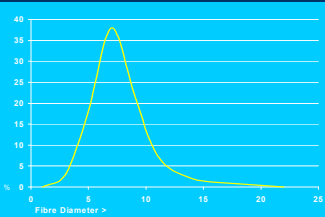
### Roxul®1000 chemistry =biosoluble chemistry

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

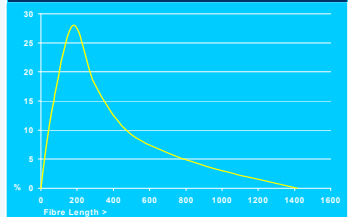
### Chemical Analysis

	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
Others		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

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ISO 9001 LF007.F08