

Product Data Sheet



Rockseal® RS440–Roxul® 1000

Premium quality engineered mineral fibre (Note Q) for application in gasket materials

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Rockseal® RS440–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 tensile strength and better immersion resistance of the product.

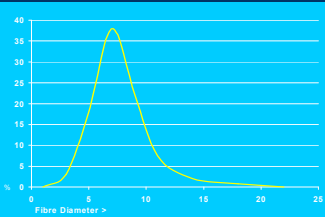
Roxul®1000 chemistry =biosoluble chemistry

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

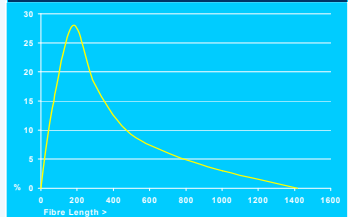
Chemical Analysis

	Min.	Max.
SiO 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



FIELD OF APPLICATION

- Rockseal® RS440–Roxul® 1000 is designed for use in high quality compressed sheets, gaskets.
- High amounts of Rockseal® RS440–Roxul® 1000 can be incorporated in order to increase steam resistance and at the same time reduce costs by replacing expensive organic fibres.
- Due to the surface treatment an excellent bonding between fibre surface and binder results in high tensile strength and improved immersion resistance.

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 ² /g	TV 165
Hardness	6 Moh	
Melting Point	> 1000 °C	Furnace, Visual
Specific Density	2.75 ± 0.15 g/cm ³	
Colour	Grey/Green	Visual

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ISO 9001 LF007.F08