

RH Nuttall Limited

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Material Specification Sheet

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RHN 54A



www.rhnutall.co.uk

CERAMIC PAPER

Description

Ceramic papers are manufactured from refractory ceramic fibres, blended with specially selected organic binders to give flexible papers with exceptional characteristics. Advanced production techniques ensure a highly uniform structure enhanced by low thermal conductivity, good handling strength and a smooth surface. Our range of ceramic papers are available in an array of thicknesses and roll sizes.

General Characteristics

High temperature stability	Excellent flexibility	Easy to cut into gaskets
High resiliency	Lightweight	Range of thicknesses

Typical Applications

High temperature gaskets and seals	Molten metal transfer systems (back up insulation)
Ingot mould liners	Automotive heat shields and silencer insulation
Expansion joints	

Grades

Ceramic paper comes in different grades depending on the application in mind. Our standard FT paper is a versatile insulating paper available in a wide range of thicknesses and is suitable for use in a variety of high temperature applications. We also offer a premium grade of paper (DS) which is produced using a unique washing process to give a paper designed for applications where extra cleanliness (less particulate) is required. In addition to these RH Nuttall also offer a very high temperature paper (H) which is manufactured using high alumina ceramic fibre, giving a paper which can be operated at higher temperatures and with an improved chemical resistance.

Typical Property Parameters

Paper	FT	DS	H
Typical Chemical Analysis (fibre wt. %)			
SiO ₂	50.0 - 54.0	50.0-54.0	42.0-52.0
Al ₂ O ₃	46.0 - 50.0	46.0-50.0	48.0-58.0
Fe ₂ O ₃ + TiO ₂	<0.2	<0.2	<0.2
Alkalis	<0.25	<0.25	<0.25
Physical Properties			
Colour	White	White	White
Melting Point (°C)	1800	1800	1800
Product Density (kg/m ³)	200-240	160-200	180-280
Tensile Strength (kPa)	>350	>350	>350
Paper Type	Unwashed	Unwashed	Unwashed
Classification Temperature (°C) *	1250	1250	1250
Loss on Ignition (wt. %)	<12.0	<12.0	<12.0
Thermal Conductivity (W/mk)			
Mean Temperature			
600°C	0.08	0.08	0.11
800°C	0.11	0.11	0.16
1000°C	0.17	0.17	0.21
Permanent Linear Shrinkage (%) 24 Hour Soak			
1250°C	<4.0	<4.0	-
1400°C	-	-	<4.0

The information given above is based upon average values and is no way intended as a warranty. The purchaser is deemed responsible for determining the suitability of the product for any application. All data relating to suitable uses and description information concerning our products are compiled from research and are believed to be reliable but are provided for guidance purposes only. The Company holds no legal or contractual responsibility for information supplied



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*Classification Temperature is not a definition of the operational limit of these products, especially when long term physical or dimensional stability is a factor. For certain applications operational temperature limits may be significantly reduced. For assistance or clarification please contact RH Nuttall Limited. Where appropriate Physical Properties data measured according to EN 1094-1.

Availability						
Thickness (mm)	FT	DS	H	Roll Length (m)		
				610	1000	1200
1	√	√	√	125	330	330
2	√	√	√	60	180	180
3	√	√	√	35	110	110
4	√	√		25	80	80
5	√	√		20	60	60
6	√	√		15	60	60
7	√			15	50	50
8	√			10	40	40
Other thicknesses / sizes may be available on request subject to minimum order requirements						

Handling Information

A Material Safety Data Sheet has been issued describing the health, safety and environmental properties of this product, identifying the potential hazards and giving advice on handling precautions and emergency procedures. This must be consulted and fully understood before handling, storage or use.

Appearance



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