

KM1200 Fiber Products

For ultra high temperature applications
to 1200 °C

Typical Properties

Chemical Composition	Al₂O₃ 72%, SiO₂ 28%
Filament Diameter	7 Micron
Density	2.9g/cc
Melting Point	>1800°C
Application Temperature	1250°C, depending upon requirements
Tensile Strength	1800Mpa
Tensile Modulus	170Gpa
Linear Shrinkage	0.2%, 1000 °C, 1000hrs
Retention Strength – Temperature (yarn)	90-100%, 1000 °C, 24hrs
Retention Strength – 10% wt aqua, Hydrochloric Acid	40-50%, 1200 °C, 24hrs
Retention Strength – 10% wt aqua, Sulfuric Acid	93%
Retention Strength – 10% wt aqua, Nitric Acid	93%



Availability – Fabrics

	ALC3	ALC6	ALC7	ALCM8	ALC12
Weight g/m ²	280	440	670	500	940
Width mm	1000	1000	1000	1000	1000
Thickness mm	0.3	0.6	1.0	0.8	1.16
Thread Count/Inch	26/26	30/25	22/20	11/11 (mesh)	40/18
Yarn Type tex	133	200	400	600	400
Tensile Strength, kgf/in	123	190	183		270
Weave	Plain	Twill	Crowfoot Satin	Plain (mesh)	Twill

Availability – Sleaving: **0.3mm** to 100mm (inner diameter)

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