

## KM1200 Fiber Products

For ultra high temperature applications to 1200 °C

### Typical Properties

Chemical Composition	<b>Al<sub>2</sub>O<sub>3</sub> 72%, SiO<sub>2</sub> 28%</b>
Filament Diameter	7 Micron
Density	2.9g/cc
Melting Point	>1800°C
<b>Application Temperature</b>	<b>1250°C, depending upon requirements</b>
Tensile Strength	1850Mpa
Tensile Modulus	160Gpa
Linear Shrinkage	<2%, 1200 °C, 30min
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

Product ID.	1-8	2-13	4-14	2-26	3-28	5-44	8-55	9-67	13-94
Weight g/m <sup>2</sup>	80	135	145	265	280	440	550	670	940
Width mm	1000	1000	1000	1000	1000	1000	1000	1000	1000
Thickness mm	0.085	0.21	0.41	0.25	0.31	0.55	0.87	0.97	1.35
Thread Count/Inch	30/30	25/25	9/9 (mesh)	55/37	26/26	30/25	11/11 (mesh)	22/20	40/18
Yarn Type tex	34	67	200	67	133	200	600	400	400
Tensile Strength, kgf/in	35	50	49		123	193	117	183	270
Weave	Plain	Plain	Plain	Crowfoot Satin	Plain	Twill	Plain	Crowfoot Satin	Double Twill

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

Special formulation (KM1200-Plus) available to increase continuous temp. to 1400°C

## Your Solution for Insulation Since 1989 !

Thermotech cannot predict all of the potential applications for which customers may attempt to use our products. Our products will have varying degrees of effectiveness for each potential application depending on application conditions and the length of use. If the customer has any questions regarding the use of our products in a particular application, please contact Thermotech and we will provide a sample for testing.

The above technical data are subject to change w/o prior notice and are not intended to be used as specifications.