



## TECHNICAL DATASHEET

### QUARTZ FABRICS

<b>Description</b>		The quartz fibers obtained by the staff method (by pulling filaments from quartz rods when heated in a flame of a combustible gas - a mixture of natural gas with oxygen) contain up to 99.9% silicon oxide (SiO <sub>2</sub> ). Due to this, quartz fibers possess not only excellent elastic-strength characteristics, but also resistance to high temperatures and various aggressive agents.	
<b>Properties</b>		Quartz fabrics are used in the manufacture of high-temperature thermal insulation of heat-resistant foil dielectrics. Quartz fabric is a highly effective reinforcing filler for heat-resistant structural composites. The melting point of quartz fibers is 1720°C, and the operating temperature is up to 2000°C (short-term) and up to 1200°C (long-term).	
<b>Physical and mechanical properties (nominal value)</b>			
<b>Name of indicators</b>	Unit of measure	TK-3	TS-8/3-K
<b>Weave type</b>	-	plane	satin 8/3
<b>Type of sizing</b>	-	silane №39	
<b>Weight of 1 m<sup>2</sup> (according to GOST 6943.16-94)</b>	g	112	290
<b>Width (according to GOST 6943.17-94)</b>	sm	92	
<b>Thickness (according to GOST 6943.18-94)</b>	mm	0.12	0.28
<b>Breaking load, not less (according to GOST 6943.10-2015)</b>	warp	245(25)	1078(110)
	weft	245(25)	588(60)
<b>The number of threads per unit length (according to GOST 6943.15-94)</b>	warp	16	36
	weft	16	20
<b>Technical documentation</b>	-	TU 6-19-062-100-88	TU 6-48-112-94
<b>Packing and storage</b>			
<b>Roll length</b>	From 50 to 100 m.		
<b>Packing</b>	Rolls of fabric are packed in cardboard boxes one roll.		
<b>Transportation</b>	Horizontally by any means of transportation in covered vehicles.		
<b>Storage conditions</b>	In packed form in closed dry storage facilities on racks or pallets with a relative humidity of not more than 80%.		
<b>Warranty period</b>	TK-3 1 year from the date of manufacture. TS-8/3-K - 2 years from the date of manufacture.		
<b>Application Safety Requirements</b>	GOST R 53237-2008.		

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