



TECHNICAL DATASHEET

QUARTZ FABRICS

Description		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 99.95% silicon oxide (SiO ₂). Due to this, quartz fibers possess not only excellent elastic-strength characteristics, but also resistance to high temperatures and various aggressive agents.	
Properties		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).	
Physical and mechanical properties (nominal value)			
Name of indicators	Unit of measure	TK-3	TC-8/3-K
Weave type	-	plane	satin 8/3
Type of sizing	-	silane №39	
Weight of 1m² (according to GOST 6943.16-94)	g	112	290
Width (according to GOST 6943.17-94)	sm	92	
Thickness (according to GOST 6943.18-94)	mm	0.12	0.28
Breaking load, not less (according to GOST 6943.10-2015)	warp	245(25)	1078(110)
	weft	245(25)	588(60)
The number of threads per unit length (according to GOST 6943.15-94)	warp	16	36
	weft	16	20
Technical documentation	-	TU 6-19-062-100-88	TU 6-48-112-94
Packing and storage			
Roll length	From 50 to 100 m.		
Packing	Rolls of fabric are packed in cardboard boxes one roll.		
Transportation	Horizontally by any means of transportation in covered vehicles.		
Storage conditions	In packed form in closed dry storage facilities on racks or pallets with a relative humidity of not more than 80%.		
Warranty period	TK-3 - 1 year from the date of manufacture. TS-8/3-K - 2 years from the date of manufacture.		
Application Safety Requirements	GOST R 53237-2008.		