



TECHNICAL DATASHEET

SILICA YARNS

Description	Are made by leaching process in heat-treated (shrunk) form with the application of a sizing substance or organic coating and in non-heat-treated form. Sized yarns are used only in resin compositions.				
Properties	Operating temperature for long-term operation is 1000°C, for a short time - up to 1400°C. Melting point 1650°C. They have heat-insulating, heat-shielding and dielectric properties at high temperatures. They are resistant to high-pressure steam, acid solutions (except HF and H ₃ PO ₄), weak alkalis, molten metals (except Na, K, Si) and alloys, low temperatures and vacuum. The composition contains two oxides with a high melting point SiO ₂ ≥ 95% and Al ₂ O ≥ 3.5%.				
Physical and mechanical properties (nominal value)					
Name of indicators	Unit of measure	Non heat treated		Heat treated	
		K11S6-180	K11S7-180	K11S6-170-BA	K11S7-170-BA
Linear density (according to GOST 6943.1-2015)	tex	180	180	170	170
Amount of twist (according to GOST 6943.4-2015)	tpm	150	130	150	130
Twist direction	-	Z (right)	S (left)	Z (right)	S (left)
The number of folds of complex yarn	-	4	3	4	3
Linear shrinkage (1000°C)	%	7	7	Up to 1.5	Up to 1.5
Sizing	m	Organic		-	-
Type of sizing	-	-	-	Water emulsion with ADE-3	
Type of finishing	-	-	-	Water emulsion without ADE-3	
Technical documentation	-	TU 23.14.11-241-18087444-2018 - K11S6-180, K11S6-170-BA TU 5952-234-18087444-2016 – K11S7-180, K11S7-170-BA			
Packing and storage					
Yarn weight on package	From 1,0 to 2,5 kg.				
Packing	Packed in a plastic bag is placed in boxes or boxes with fixing liners. The weight of yarn in box is up to 15 kg or in box up to 350 kg.				
Shipment	On pallets or by separate boxes.				
Transportation	By any means of transportation in covered vehicles.				
Storage conditions	In packed form in dry enclosed spaces on racks or pallets at a relative humidity of not more than 80%.				
Warranty period	K11S6-180, K11S6-170-BA – seven years; K11S7-180, K11S7-170-BA – three years				
Application Safety Requirements	According to technical documentation.				
Fire safety	Relate to the NC (non-combustible) group. Have a fire safety certificate.				