



TECHNICAL DATASHEET

SILICA TAPES (ST)

Description	Are made by leaching process. Produced in non-heat-treated (unshrunk) form.					
Properties	Tapes have good heat-insulating, heat-shielding and dielectric properties at high temperatures. The coefficient of thermal conductivity of tapes at 1000 ° C is 0.22 W/m·K, the electrical resistivity is 10^{17-18} Ohm·cm at 20 ° C and the dielectric constant is 3.7. 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. Such properties of the tapes are due to the presence in their composition of two oxides with a high melting point SiO ₂ ≥ 95% and Al ₂ O ₃ ≥ 3.5%.					
Physical and mechanical properties (nominal value)						
Name of indicators	Unit of measure	ST-11-1,5	ST-11-3,5	ST-11-5,0	ST-11-8,2	ST-11-9,4
Weave	-	plain				
Width (according to GOST 6943.17-94)	cm	1.5	3.5	5.0	8.2	9.4
Twist direction	-	0.28	0.28	0.28	0.35	0.35
The number of folds of complex yarn	-	5	10	14	28	32
Linear shrinkage (1000°C)	%	7	7	7	7	7
Technical documentation	-	TU 23.14.11-242-18087444-2018				
Packing and storage						
Length of tape in roll	From 50 to 100 m.					
Packing	Each roll of tape is putted into a plastic bag and placed in boxes. The mass of tape in the box is up to 20 kg.					
Shipment	Is carried out on pallets or by separate boxes.					
Transportation	By any means of transportation in covered vehicles in horizontal position.					
Storage conditions	In packed form in closed dry storage facilities on racks or pallets at a relative humidity of not more than 80%.					
Warranty period	Seven years from the date of manufacture.					
Application Safety Requirements	According to technical documentation.					
Fire safety	Relate to the NC (non-combustible) group. Have a fire safety certificate.					