



## TECHNICAL DATASHEET

### SILICA TAPES (ST)

<b>Description</b>	Are made by leaching process. Produced in non-heat-treated (unshrunk) form.					
<b>Properties</b>	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 <sub>3</sub> PO <sub>4</sub> ), 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 <sub>2</sub> ≥ 95% and Al <sub>2</sub> O <sub>3</sub> ≥ 3.5%.					
<b>Physical and mechanical properties (nominal value)</b>						
<b>Name of indicators</b>	Unit of measure	ST-11-1,5	ST-11-3,5	ST-11-5,0	ST-11-8,2	ST-11-9,4
<b>Weave</b>	-	plain				
<b>Width (according to GOST 6943.17-94)</b>	cm	1.5	3.5	5.0	8.2	9.4
<b>Thickness</b>	mm	0.28	0.28	0.28	0.35	0.35
<b>Weight</b>	g/m <sup>2</sup>	5	10	14	28	32
<b>Linear shrinkage (1000°C)</b>	%	7	7	7	7	7
<b>Technical documentation</b>	-	TU 23.14.11-242-18087444-2018				
<b>Packing and storage</b>						
<b>Length of tape in roll</b>	From 80 to 100 m.					
<b>Packing</b>	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.					
<b>Shipment</b>	Is carried out on pallets or by separate boxes.					
<b>Transportation</b>	By any means of transportation in covered vehicles in horizontal position.					
<b>Storage conditions</b>	In packed form in closed dry storage facilities on racks or pallets at a relative humidity of not more than 80%.					
<b>Warranty period</b>	Seven years from the date of manufacture.					
<b>Application Safety Requirements</b>	According to technical documentation.					
<b>Fire safety</b>	Relate to the NC (non-combustible) group. Have a fire safety certificate.					