



TECHNICAL DATASHEET

STITCH-BONDED FABRICS (SBF) DOUBLED

Description	Are manufactured from silica fabric KT-11-13 (KT-11-TO) and silica yarn K11C6-180 or silica-kapron fabric KTK and silica unshrunk sized yarn K11S6-170-BA on stitch-bonding machine. They are continuous roll material of different thicknesses, which is collected from previously sewn source fabrics into two layers by sequential stitching by tricot weave of each next layer (double or single) with all previously connected. Cloths of type SBF-KT11 are produced in non-heat-treated (unshrunk) form, shrinkage (1000°C) - 7%.				
Properties	Cloths made of KT-11-13 (KT-11-TO) fabric have heat-insulating, heat-shielding and dielectric properties at high temperatures. Thermal conductivity of fabrics 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. 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, as they are made of silica materials, which contain two oxides with a high melting point of SiO ₂ ≥ 95% and Al ₂ O ₃ ≥ 3.5%. Fabrics of type SBF-KTK are a filler for heat-protective composite materials of the ablative type.				
Physical and mechanical properties (nominal value)					
Type of fabric	Width, mm (according to GOST 6943.17-94)	Width, mm (according to GOST 6943.18-94)	Type of fabric	Width, mm (according to GOST 6943.17-94)	Width, mm (according to GOST 6943.18-94)
SBF-KT11-2L	850	1.0	SBF-KT11-14L	850	6.1
SBF-KT11-3L	850	1.5	SBF-KT11-15L	850	6.3
SBF-KT11-4L	850	2.0	SBF-KT11-16L	850	6.5
SBF-KT11-5L	850	2.5	SBF-KTK-2	950	2.2
SBF-KT11-6L	850	3.0	SBF-KTK-4	950	4.4
SBF-KT11-8L	850	4.0	SBF-KTK-6	950	6.0
SBF-KT11-9L	850	4.4	SBF-KTK-8	950	8.0
SBF-KT11-10L	850	4.8	SBF-KTK-10	950	10
SBF-KT11-11L	850	5.2	SBF-KTK-12	950	12
SBF-KT11-12L	850	5.6	SBF-KT-11-TO-3L	850	1.8
Technical documentation	SBF-KT-11-TO-3L - TU 8397-168-00302327-97, all the rest – GOST 13863-89				
Packing and storage					
Roll length	From 7 to 55 meters depending on the thickness.				
Packing	Rolls are wrapped with waterproof paper or polyethylene film followed by sheathing with gauze.				
Shipment	Is carried out on pallets or by separate rolls.				
Transportation	Horizontally by any means of transportation in covered vehicles.				
Storage conditions	In packed form in dry ventilated spaces.				
Warranty period	Eight years from the date of manufacture.				
Safety requirements	According to technical documentation.				
Fire safety	Fabric of type SBF-KT11 relate to the NC (non-combustible) group. Have a fire safety certificate.				