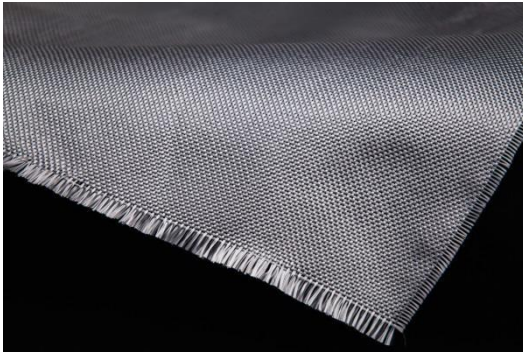


Technical data sheet Electrical insulating fabrics

Manufacture of electroinsulating and clad dielectric materials



Electrical insulating fabrics are plain-woven and made on looms out of twisted aluminoborosilicate-glass threads.

Typical application: manufacture of electroinsulating and clad dielectric materials, printed circuit boards, glass textolites, circuits for radio equipment and computers, coating materials for thermal insulation of pipes and tanks, roofing and other construction

purposes. These fabrics are also used in manufacture of glass-fibre reinforced plastics for various industries: manufacturing body parts for cars, yachts, motor boats, chemically resistant vessels, pipelines, protective coatings, various structures and profiles.

Advantages: the electrical insulating fabrics are

- ✓ nonflammable
- ✓ nonburning
- ✓ non-toxic
- ✓ explosion-proof
- ✓ operating temperatures ranging from -200°C to +550°C

Physical and mechanical properties

Property		Unit	E1-100P	E1/1-100P	E1-125P	E3-125P	E3-200P	
Mass per unit area		g/m ²	108±6	110±6	145±9	145±12	195 ⁺¹⁶ ₋₁₀	
Thickness		mm	0,100 ±0,008	0,100 ±0,010	0,125 ±0,010	0,125 ±0,013	0,200 ^{+0,01} _{-0,02}	
Tensile strength	warp	N/2.5 cm	588	588	882	784	1127	
	weft	N/2.5 cm	588	588	882	784	1078	
Loss on ignition		%	0.8-1.6 – silane sizing agents 1.0-1.8 – paraffin emulsion					
Width		cm	70/90/95/107±1%					
Regulatory documents			GOST 19907-2015					

Technical data sheet

Electrical insulating fabrics

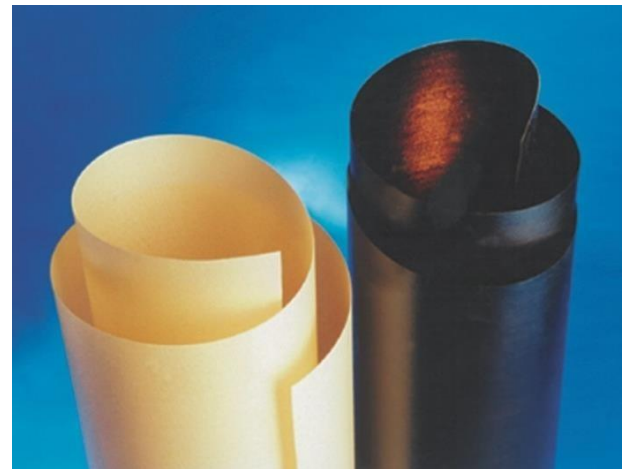
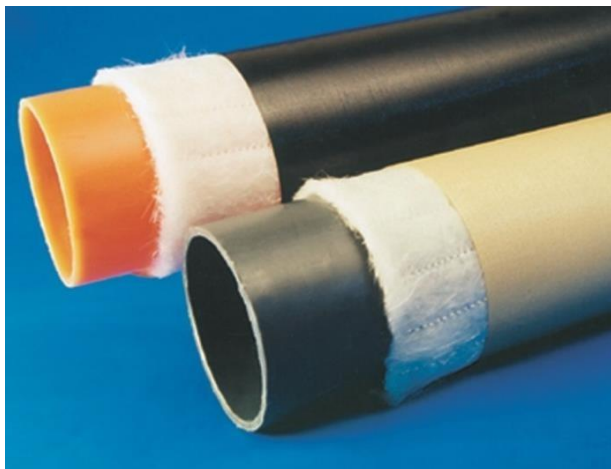
Manufacture of electroinsulating and clad dielectric materials

Physical and mechanical properties (continuation)

Property		Unit	E3/2-200P	7628	7637	E3-400P
Mass per unit area		g/m ²	169±25	203±5	228±10	380±40
Thickness		mm	0.165±0.020	0.180±0.030	0.22±0.035	0.38±0.05
Tensile strength	warp	N/5 cm	850*	2300	2300	1700
	weft	N/5 cm	850*	1400	2100	2400
Loss on ignition		%	≤2/≤1,8	≤1.8	≤1.8	≤1.1
Sizing agent			paraffin emulsion/ direct	direct		
Width		cm	100±1	100-200±1		
Regulatory documents			TU 13.20.46-032-00205009-2017			

*for E3/2-200P fabric, tensile strength is defined in N/2,5 cm.

Manufacture of the material with other physical and mechanical properties is accepted upon agreeing about with a consumer.



Regulatory documents:

- GOST 19907-2015
- Technical specification TU 13.20.46-032-00205009-2017

Packaging:

Rolls wrapped in polyethylene film are put horizontally on a wooden pallet, every next tier perpendicular to the previous one. Rolls exceeding 300 m in length are pyramidally stacked on a wooden pallet in a horizontal position

Manufactured by:

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