



THERMAL INSULATION MATERIALS

Number of special non-woven E-glass materials are produced. The materials can be used both in southern regions and in the regions of far north, because their operating range of temperatures (without loss of the main characteristics) is from — 800C up to +3500C. Non-woven materials are a scrim made of chaotically located fibers, bonded by multiple needle piercing or sewn by glass yarn.

APPLICATION



As insulation of gas ovens, steam boilers, turbines, supply lines, pipe work — where changing of temperature conditions is not allowed, where usage of binding resins is not allowed, as well as superb noise insulation.



Rolled glass plastics are used as a covering layer in thermal insulation of pipes and equipment

BIULDING GLASS MESHES

Needle felts

Mesh type	Mass - area ratio, g/m ²	Thickness, mm	Loss on ignition, %, not more than	Thermal conductivity at 25 0C Wt/(m·K), not more than	Compressibility, %, not more than	Vapour permeability, mg/(m·h·Pa), not less than	Frost resistance, cycles	Elasticity, %, not less than	Width, cm	Roll length, m	Temperature range of application
IPM-E-6-600	600±12	6±1	2	0,030	35	0,30	30	64,8	(25-200) ±	10-50	from minus 40 to plus 550°C
IPM-E-6-800	800±12	6±1	2	0,031	33	0,26	30	66,7			
IPM-E-9-1000	1000±12	9±1	2	0,031	30	0,25	30	88,3			
IPM-E-9-1500	1500±12	9±1	2	0,033	14	0,25	30	66,7			
IPM-E-12-2000	2000±12	12±1	2	0,033	19	0,24	30	86,4			
IPM-E-20-3000	3000±12	20±2e	2	0,039	10	0,22	30	86,9			

Needle-punched cloth

Cloth type	Mass - area ratio, g/m ²	Thickness, mm	Tensile strength, N(kgf), not less than	Thermal conductivity at 25 0C, Wt (m·K), not more than	Density, kg/m ³	Loss on ignition, %, not more than	Width, mm	Roll length, m	Temperature range of application
IPC-T-550	550±120	3,5±1,5	10(1,0) in length 10(1,0) in width	0,057	150±50	2,5	1400±35	not less than 15	from minus 40 to plus 550°C
IPC-T-1000	1000±200	6,0±2	20(2,0) in length 20(2,0) in width	0,041	140±40	2,5		not less than 15	
IPC-T-2300	2300±500	12,0±3-2	35(3,5) in length 35(3,5) in width	0,038	130±30	2,5		not less than 10	

Needle-pierced cloth

Cloth type	Mass - area ratio, g/m ²	Thickness, mm	Thermal conductivity at 25 0C, Wt (m·K), not more than	Width, mm	Roll length, m	Temperature range of application
IPC-T-550	450±30%	from 1,3 to 4,0	0,050	(800,1000,1200,1400, 1500,1600,1800) ±2,5 %	not less than 20	from minus 40 to plus 550°C
IPC-T-1000	500±30%					
IPC-T-2300	550±30%					

ROLLED GLASS REINFORCED PLASTICS

Glass reinforced plastic type	Weight of g/ m ²	Type of polymer binding	Mass fraction of polymer binding	Web width, mm	Roll length, m	Fire-technical indices	Field of application
Glass reinforced plastic 250 L	250+20% -15%	latex	not less than 20%	(1000,1070, 1100,1200, 1270)±20	200±0,5	Combustibility grade G1 Flame spread group RP1 Flammability group B1 Moderate fume-forming ability	Insulation of pipe lines inside buildings
Glass reinforced plastic 420 X	420+20% -15%	chemically resistant vanish			100±0,5		Insulation of pipe lines outside buildings