

BRONNYA[®]

SUPERFINE HEAT INSULATION

Comparative thermal conductivity

By thermal conductivity

Material	Thermal conductivity coefficient (W/m*K)
Ultra-thin thermal insulation Bronya and modifications	0,0012
Polyurethane foam panels	0,025
Foam rubber	0,03
Ebonite swollen	0,03
Polyurethane foam sheets	0,035
Cork sheets are light	0,035
Thermal insulation tile PMTB-2	0,036
Fiberglass	0,036
Foam PS-1	0,037
Spanking (foam resin)	0,038
Insulated cardboard BTK-1	0,04
Foam PS-4	0,04
Expanded polystyrene PSB	0,04
Expanded polystyrene PSB With	0,04
Foam rubber	0,04
Natural rubber	0,042
Cork plate	0,043
Light mineral wool	0,045
Wool felt	0,045
Foam resopen FRP	0,045
PVC-1 foam	0,05
Perlite	0,05
Cork sheets are heavy	0,05
Glass wool	0,05
Heavy mineral wool	0,055
Cotton wool	0,055
Fluorinated rubber	0,055
Foam glass is light	0,06
Dry wood sawdust	0,065
Silica plates	0,07
Foam glass is heavy	0,08
Perlite cement slabs	0,08
Polystyrene	0,082

Mipora	0,085
Sawdust-filling	0,095
Vermiculite sheets	0,1
Shavings - stuffing	0,12
Multi-layer construction cardboard	0,13
Paper	0,14
Asbestos fibrous	0,15
Wood-boards	0,15
Wood-plywood	0,15
Wood ash	0,15
Silica brick	0,15
Linden, birch, maple, oak (15% humidity)	0,15
Rubber	0,15
Common pine, spruce, fir (450...550 kg/cubic meter, 15% humidity)	0,15
Granular slag	0,15
Ebonite	0,16
Pergamin	0,17
Roofing material	0,17
Thermal insulation concrete	0,18
PVC	0,19
Hardwood	0,2
Particle board chipboard	0,2
Claydite-concrete	0,2
Dry plaster	0,21
Bakelite	0,23
Resinous pine (600...750 kg/cubic meter, 15% (humidity)	0,23
Paper roofing	0,23
Teflon	0,25
Boiler slag	0,29
Tar	0,3
Foam concrete	0,3
Fiberglass	0,3
Sand 0% humidity	0,33
Asbestos (slate)	0,35
Asbestos cement slabs	0,35
Gypsum construction	0,35
The ground is dry	0,4
Hollow brick	0,44
Alabaster slabs	0,47
Bitumen	0,47
Frost	0,47

Portland cement solution	0,47
Slag brick	0,58
Cinder block	0,6
Solid brick	0,67
Concrete on sand	0,7
Asphalt	0,72
Asphalt in the floors	0,8
Silicate brick	0,81
Lime-sand solution	0,87
Cement plaster	0,9
Gravel (filler)	0,93
Sand 10% humidity	0,97
Compacted soil	1,05
Glass	1,15
The ground is sandy	1,16
Cement-sand solution	1,2
Concrete on stone rubble	1,3
Sand 20% humidity	1,33
Porous concrete	1,4
Stone	1,4
Burnt sandstone	1,5
Snow	1,5
Reinforced concrete	1,7
Limestone	1,7
Solid concrete	1,75
Ground 10% water	1,75
Asbestos cement	1,76
Cement slabs	1,92
Ground 20% water	2,1
Slate	2,1
Ice°C	2,21
Alumina	2,33
Ice -20°C	2,44
Ice -60°C	2,91
Granite, basalt	3,5
Steel	52
Cast iron	56
Bronze	105
Brass	110
Duralumin	160
Aluminum	230
Copper	380

In alphabetical order

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Asbestos cement	1,76
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Asphalt in the floors	0,8
Bakelite	0,23
Concrete on stone rubble	1,3
Concrete on sand	0,7
Porous concrete	1,4
Solid concrete	1,75
Thermal insulation concrete	0,18
Bitumen	0,47
Bronze	105
Paper	0,14
Light mineral wool	0,045
Heavy mineral wool	0,055
Cotton wool	0,055
Vermiculite sheets	0,1
Wool felt	0,045
Alumina	2,33
Gravel (filler)	0,93
Granite, basalt	3,5
Ground 10% water	1,75
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Wood-boards	0,15
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Chipboard chipboard	0,2
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