BRONYA®

SUPERFINE HEAT INSULATION

Thickness recommendations

liquid ceramic thermal insulation coating of the Bronya series and modifications

for use on pipelines and equipment.

The use of liquid ceramic thermal insulation coatings of the Bronya series is aimed at ensuring energy efficiency, achievement of standardized heat losses and safety conditions labor. To correctly determine the required amount of coverage for solving problems of insulation hot water supply and heating pipelines, technological equipment, etc. recommend:

- To correctly determine the thickness of the Bronya coating, carry out a heat engineering calculation. When if necessary, our specialists carry out thermal calculations of the thickness of the Bronya coating in accordance with the norms of SNiP 41-03-2003, SP 41-103-2000. (This service is provided is free). You must fill out an assignment form (you can download it on our website - https://nano34.ru/en/documents/technical-documentation) and send it to us by e-mail or fax;
- Our experience in solving problems of thermal insulation of various objects allows us to give empirical data on the thickness of the required layer Bronya:

Table of approximate calculation of the thickness of the coating of the heat-insulating coating Bronya on heating and water supply pipelines to reduce heat loss in accordance with the requirements SNiP 41-03-2003 and SP 41-103-2000

Average temperature on the surface, ° C	Layer thickness Bronya (actual), mm	Layer thickness Bronya (calculated), mm	Approximate application consumption brush, l / m^2
0 - 40	1	0,46	1,1
40/45 – 80-85	1	1,04	1,1
80/85 – 100/110	1,5	1,56	1,65
100/110 – 160/180*	2	1.97	2,2
160/180 – 200/210*	3	2,79	3,3
200/210 – 260*	4	3,92	4,4

* Check the exact operating temperature of Bronya modifications from the manufacturer or representative in your region

Temperature reduction table on the surface of a metal pipeline Ø 150 mm in accordance with requirements of SNiP 41-03-2003; SNiP I-G.7-62; GOST 8732-58 *; GOST 87.31-58

Thickness Bronya, mm	**Surface temperature, ° C**					
	60	**80**	**100**	**120**	**150**	**200**
1	42	54	64	68	77	100
1.5	33	42	56	57	64	75
2	31	35	45	51	58	70
2.5	30	31	42	46	50	66
3	28	29	35	42	45	52
4	25	26	32	35	39	45