

# BRONYA

## SUPERFINE HEAT INSULATION

### of Bronya liquid ceramic heat-insulation and its modifications for application on pipelines and equipment

Application of Bronya liquid ceramic heat-insulation is designed to provide energy efficiency, achieve standardized heat losses and conditions ensuring the labor safety. To correctly identify the necessary amount of heat-insulation for solving issues on insulation of hot water and heating pipelines, process equipment, etc., we recommend the following:

- It is required to perform thermotechnical calculations in order to determine the thickness of Bronya heat-insulation correctly. If necessary, our experts are able to perform thermotechnical calculations to determine the thickness of Bronya heat-insulation in accordance with SNiP 41-03-2003, Construction rules 41-103-2000. (This service is provided free of charge). You shall fill in a job form (you can download it from our website [http://www.nano34.ru/technical\\_documentation](http://www.nano34.ru/technical_documentation)) and send us via email or fax;
- Our experience in solving the problems of thermal insulation of different objects allows to provide empirical data on the thickness of the required layer of heat-insulation Bronya.

### Approximate calculation of the thickness of Bronya liquid ceramic heat-insulation on heating and water pipelines to reduce heat losses in accordance with the requirements of SNiP 41-03-2003 and Construction rules 41-103-2000

Average surface temperature, °C	Bronya layer thickness (actual), mm	Bronya layer thickness (rated), mm	Approximate consumption, if applied with a brush, l/m <sup>2</sup>
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

\* Consult the manufacturer or a representative in your region regarding the exact operating temperature of Bronya modifications

### Reduction of the surface temperature of the metal pipeline (Ø 150 mm) in accordance with the requirements of SNiP 41-03-2003; SNiP 1-Г.7-62; GOST 8732-58\*; GOST 87.31-58

Bronya thickness, 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