JSC Nizhnekamskneftekhim, Ethylene Plant

REPORT

on using liquid ceramic thermal insulation coating

On February 09, 2009, in shop No. 2104 of Ethylene Plant, Isollat liquid ceramic coating was tested. The coating was applied to the surface of the pipe from the inlet of steam of E-GT-102 BN turbine. The experimental results are shown in the table.

Date	**08.04.2009**	**18.03.2010**
Ambient temperature.	**11°C**	**-6°C**
Measuring on a bare surface.	**315°C**	**245°C**
Measuring after applying six layers of coating 3.0 mm thick with an intermediate layer of glass cloth	**42°C**	**25°C**

Temperature was measured with TK-5.03 contact thermometer. Thus, after applying six coats 3.0 mm thick with intermediate layers of glass cloth to the surface of the pipe from the inlet of steam of E- T-102 BN turbine, the temperature has decreased from 220 to 270°C.

As a result of practical testing properties of thermal insulation material, we have made a conclusion about high efficiency of this thermal insulation; we recommend to use the material for valves, high temperature pipelines and other process equipment coating (to reduce heat loss and surface temperature).