

**TEST REPORT**  
No.227 of 15.07.2010

**1. NAME AND ADDRESS OF THE CUSTOMER**

Special Technologies LLC.

**2. MATERIAL DESCRIPTION**

ISOLLAT heat insulation material, TU 2216-001-59277205-2002

**3. DESCRIPTION OF SERVICES PROVIDED** Experimental defining vapor permeability

**4. SAMPLING PROCEDURE**

The Customer provided Isollat heat insulating material in an amount of 1 liter.

**5. TEST METHODS**

Defining vapor permeability - acc. to GOST REN 12086-2008

**6. TEST EQUIPMENT** Corrosion-resistant test cups.

Beam compass

Conical limit ring

Electronic lab scales VLTE-150-P with accuracy of at least 1 mg.

Cabinet with specified conditions Paraffin resistant sealant

**7. TEST CONDITIONS** Temperature 23°C

Relative humidity: dry environment - 0%, moist environment - 85%

Desiccant - Potassium chloride

**8. TEST RESULTS**

**8.1 Measuring the cup weight with a sample**

Number of sample	Weight of the cup with a sample at the moment of time, m1, mg	Weight of the cup with a sample at the moment of time, m2, mg	Moment of time t1,4	Moment of time m2,4	Weight of the cup with a sample Gi.2, mg/h
1	182144	187650	24	48	229.42
2	182099	187600	24	48	229.21
3	182116	187620	24	48	229.33
4	182120	187625	24	48	227.37
5	182194	187700	24	48	229.42

G1.2=228,95 mg/h

Relative vapor permeability

**p=2390 Pa**

$W=12 \text{ mg/m}^2\cdot\text{h}\cdot\text{Pa}$

**8.2 Vapor permeability  $d=0,001 \text{ m}$   
 $p=0,012 \text{ mg/m}\cdot\text{h}$**

9. CONCLUSIONS.

Isollat material presented has the following vapor permeability:  $0.012 \text{ mg/m}\cdot\text{h}$  acc. to GOST REN 12086-2008

The test was carried out by:  
Engineer of  
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Department