Imię i nazwisko ........................................... Rok studiów, grupa .....................................

Data ćwiczenia ............................................

Temat ćwiczenia

## „Badanie parametrów termofizycznych materiału formy piaskowej”

**Tab 1.** Wartości liczbowe **Wykres 1.** Przebieg nagrzewania formy doświadczalnej i



600

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z pomiaru temperatury metalu i formy stygnięcia metalu (wg wartości liczbowych z tabeli 1)

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| Lp. | Czas  (s) | Temperatura w o C dla termoelem. nr..../ odl. xi | | |
| **1**  środek  odlewu | **2**  pow.  styku | **3**  0,015 m |
| 1 | 10 |  |  |  |
| 2 | 40 |  |  |  |
| 3 | 70 |  |  |  |
| 4 | 100 |  |  |  |
| 5 | 130 |  |  |  |
| 6 | 160 |  |  |  |
| 7 | 190 |  |  |  |
| 8 | 220 |  |  |  |
| 9 | 250 |  |  |  |
| 10 | 280 |  |  |  |
| 11 | 310 |  |  | 0 100 200 300 400 500 600 , s |
| 12 | 340 |  |  |  |
| 13 | 370 |  |  |  |

**Tabela 2.** Przebieg obliczenia współczynnika 

**Dane do obliczeń:**



|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Temp. = 450 o C | | | | Temp. = 20 o C | |  | | |
| Wartości z pomiaru | | | Wartości obliczone | | | | | |
| Odl.  termo-  elem.  (m) | Czas  od zal.  (s)  () | Temp.  ( o C)  (Tx) |  |  | Odczytać z tablic | |  |  |
| 1 | 2 | 3 | 4 | 5 | 6 | | 7 | |
| x1 =0,015 m | 10 |  |  |  |  | |  | |
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# Obliczenia

* Obliczenie średniej wartości współczynnika :  = 
* Obliczanie współczynnika przewodzenia ciepła λ:  = …………….…. W/mK
* Obliczenie wartości współczynnika b: 

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