

# IV Konferencja Doktorantów Wydziału Odlewnictwa



Akademii Górniczo – Hutniczej im St. Staszica w Krakowie  
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## Modeling viscosity of converter slag

<sup>a</sup>V. Sinelnikov, <sup>\*a</sup>Dorota Kalisz,

<sup>a</sup> Katedra Tworzyw Formierskich, Technologii Formy i Odlewnictwa Metali Nieżelaznych, Wydział Odlewnictwa,  
AGH - Akademia Górniczo - Hutnicza im. St. Staszica, ul. Reymonta 23, 30-059 Kraków, Polska

**E-Mail kontaktowy:** [\\*dak@agh.edu.pl](mailto:*dak@agh.edu.pl)

**Słowa kluczowe:** Viscosity, Slag, Modeling, FactSage

### Streszczenie:

The paper is devoted to one of the most important factors influencing steel melting and operation of an oxygen converter, i.e. dynamic viscosity of slag. Knowing typical chemical composition of slag after melting, the viscosity was calculated with the use of Riboud and Urbain empirical models at temperatures 1400°C to 1700°C. The obtained mathematical results were compared with the results of simulations obtained with the FactSage program. The discrepancies between these results were caused by model assumptions and the fact that slag in lower temperatures consisted of liquid and solid phases.

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**Tytuł w języku angielskim:** Modeling viscosity of converter slag