

FOSECO PRO MODULE

Database of 3D Geometries and thermo-physical data, exclusively for use in MAGMASOFT®

THE FOSECO PRO MODULE FOR MAGMASOFT®

Database of 3D geometries and thermo-physical data

The Foseco Pro Module is a parametric 3D library of sleeve and filter products, combined with proprietary thermo-physical data, which has been integrated directly into MAGMA casting process simulation software.

This tool, jointly developed by Foseco and MAGMA, supports the foundry simulation engineer by greatly simplifying the modelling of Foseco products and their performance within MAGMASOFT®.

Simulation accuracy is improved by using performance data specific to Foseco sleeve and filter types, leading to greater confidence in the results.

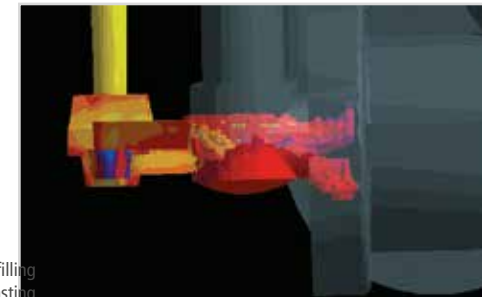
It facilitates optimisation of the casting quality and casting production processes, primarily through improved gating and risering system design.

Key Functionality

- + Search and select from a library of Foseco sleeve or filter products directly in the MAGMA geometry perspective.
- + Once a product is selected, it is automatically imported into MAGMA as a 3D model.
- + Sleeve material thermo-physical data, filter pressure drop data and relevant Heat Transfer Coefficients are automatically assigned to their respective geometries.
- + The models are fully parametric and the user can easily change the size or configuration of the chosen product.
- + The Foseco Pro Module is the perfect compliment to Optimisation and Design of Experiments studies in MAGMASOFT® v5.4.



Simulation analysis of casting filling and solidification



Simulated filling of Valve Casting



The Foseco feeding systems database interface



The Pro Module interface in MAGMA⁵



Accurate thermo-physical data allows for correct prediction of filling, solidification and feeding of the casting



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