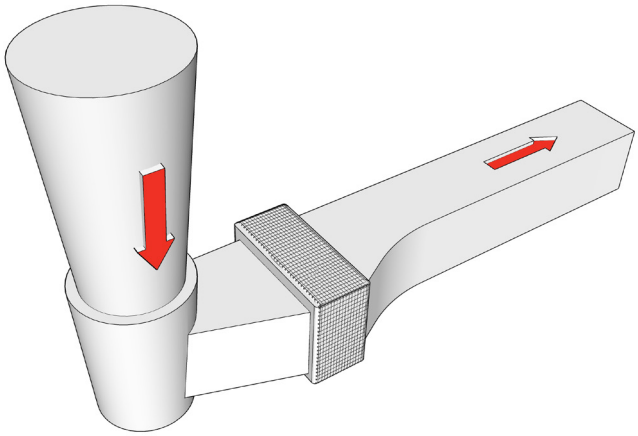
RIGID GLASWEVE FILTERS FOR SAND AND PERMANENT MOULD CASTING

REPLACEMENT FOR CERAMIC FOAM FILTERS

Pyrotek Rigid Glasweve® (RGW) filters are formed, rigidized filters made from woven fibreglass and used in permanent mould and sand casting applications to capture metal impurities, regulate metal flow rates, and prevent metal bypass. The filters replace and outperform traditional ceramic foam filters (CFF) without the need for process changes or filter pocket modifications.

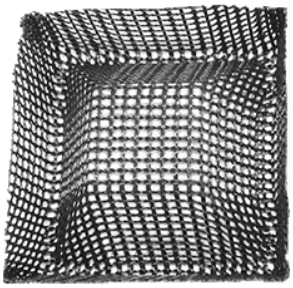
Rigid Glasweve filters provide aluminium foundries with the same quality as CFF and additional performance advantages. RGW advantages include: improved filter pocket fit to prevent metal bypass, more consistent pouring times, reduced abrasion on moulds and mould coatings and easy gating recycling. Solidified gating can be remelted as one whole piece containing the Rigid Glasweve filter. The RGW filter floats to the melt surface and is removed with standard degassing, fluxing and dross removal practices.

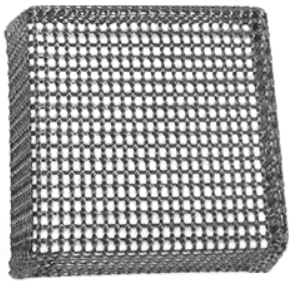
Rigid Glasweve filters have precise design tolerances, as low as ±0.5 millimetres, when compared with CFF. The low tolerance allows minimal to no aluminium to bypass the filter. RGW filter end products do not vary greatly, which results in very consistent pour times (beneficial in robotic pouring systems).



APPLICATIONS

- Permanent mould
- Semi-permanent mould
- Sand mould





BENEFITS

- Reduced or completely eliminated metal bypass
- Easy to remelt gating with filter
- Equivalent or better casting quality than with CFF
- More consistent pour times
- Reduced wear on moulds and mould coatings

PATENT

www.pyrotek.com/patents

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