

# BatchMaker<sup>®</sup> Suite 2008

## Major Enhancements in Comparison to BatchMaker<sup>®</sup> Suite 2007

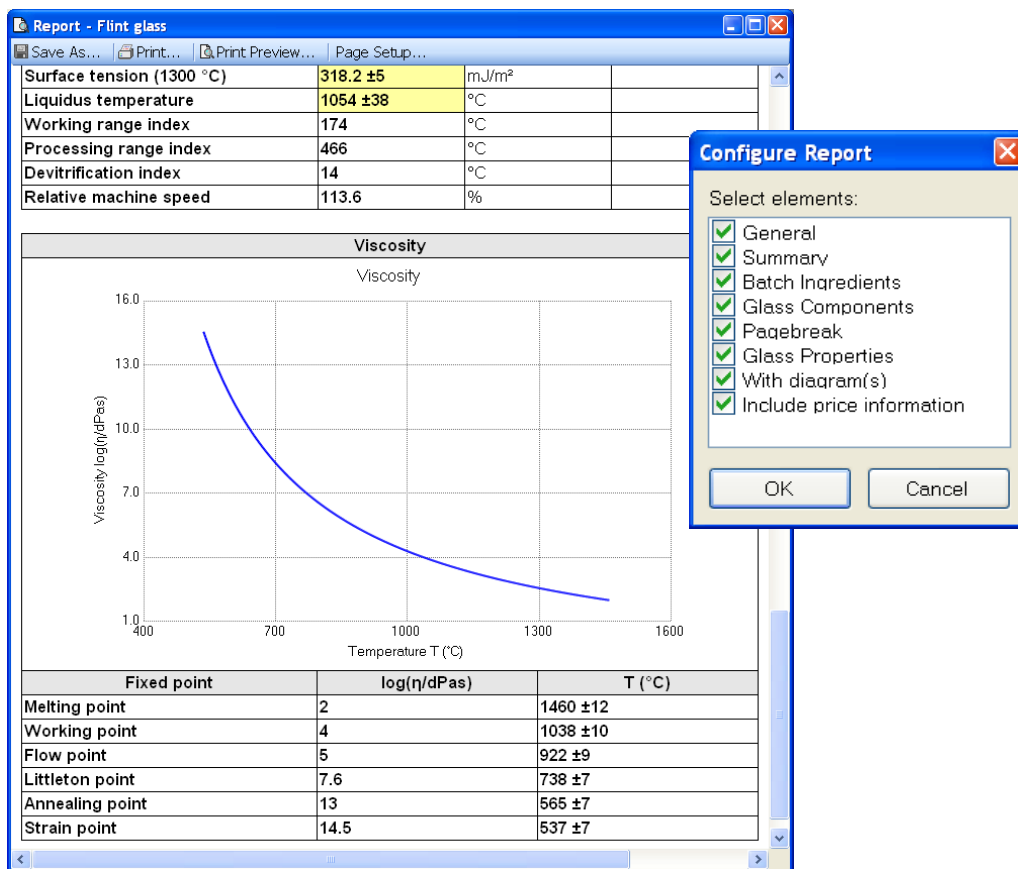
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### General

- For ease of use only one Batch Recipe window per glass recipe will open up.
- To improve clarity in the Batch Recipe window, empty rows and columns are automatically removed.
- In the Master Data window, the raw material-dependent nominal and limiting values as well as the evaporation factors are only shown on request. Moreover, the additional language-dependent name columns are hidden by default.

### Reports

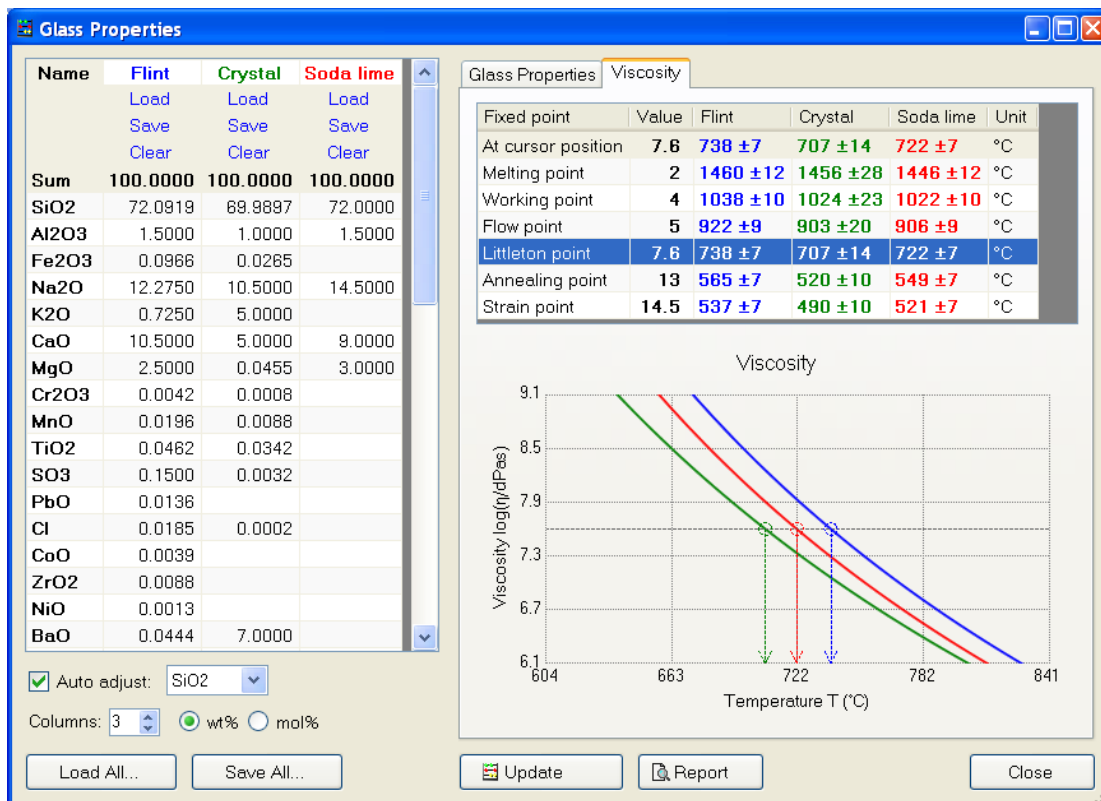
- Reports are now displayed in their own window, which can be enlarged up to desktop size independently of BatchMaker.
- In the Batch Recipe report, the glass property diagrams, e.g. the viscosity curve, can be shown when desired. In addition, there is also the possibility of inserting a page break before the Glass Properties table to avoid unwanted breaks within tables.



- Change in page settings (margins, header and footer) have now only influence on BatchMaker and no longer interfere with the Internet Explorer.

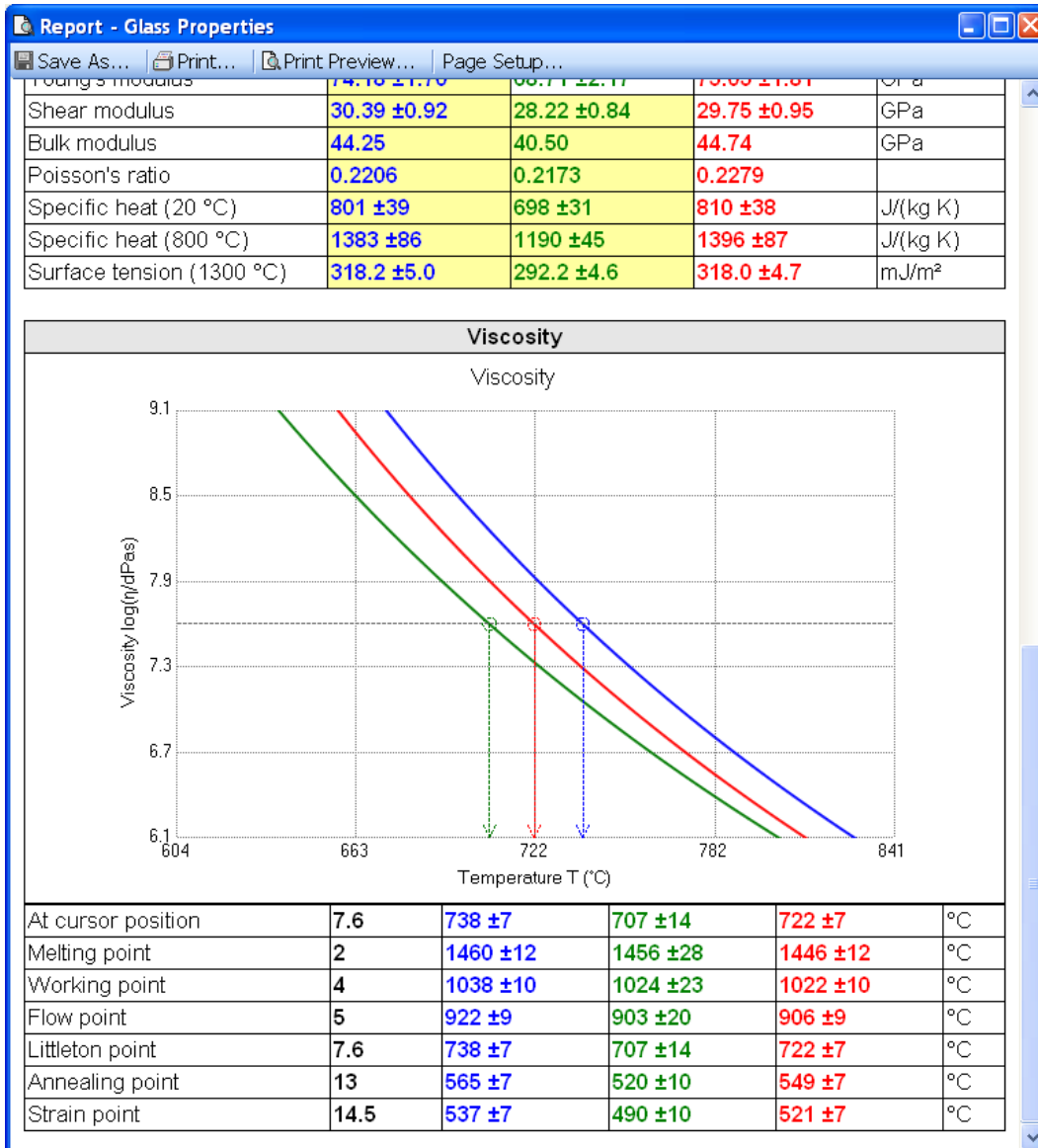
## Glass Properties

- The standard list of available glass and melt property predictions has been extended by another 15 new calculations:
  - Refractive index
  - Dispersion
  - Abbe number
  - Chemical resistance (acid consumption, ml 0.01 M HCl)
  - Chemical resistance (base equivalent,  $\mu\text{g Na}_2\text{O/g}$ )
  - Hydrolytic class
  - Young's modulus (GPa)
  - Shear modulus (GPa)
  - Bulk modulus (GPa)
  - Poisson's number
  - Molar heat capacity at 20 °C ( $\text{J mol}^{-1} \text{K}^{-1}$ )
  - Molar heat capacity at 800 °C ( $\text{J mol}^{-1} \text{K}^{-1}$ )
  - Specific heat capacity at 20 °C ( $\text{J kg}^{-1} \text{K}^{-1}$ )
  - Specific heat capacity at 800 °C ( $\text{J kg}^{-1} \text{K}^{-1}$ )
  - Surface tension at 1300 °C ( $\text{mJ/m}^2$ )
- When desired, the  $\text{SiO}_2$  percentage (or another component) is adapted after the input of a value (100% sum correction).



- Diagrams such as the viscosity curve can be rescaled arbitrarily by using the mouse or keyboard. With the right mouse button pressed graphs can be shifted (zoom & pan).
- Diagrams can be copied to the Windows Clipboard or saved as a file in PNG format.

- The Glass Property Calculator now offers a report function with tabular and graphical presentation of the calculated glass properties.



- When the validity limits are exceeded the result will be shown with a yellow background (instead of red, as in the previous version). Only if the computed error interval exceeds the model limit the background will change to red.
- In diagrams, the missing values along the curve are now represented as gaps. Curve sections, with which the predicted error exceeds the model limit, are drawn translucently.
- Files with glass compositions (file extension .comp) are now shown in the File Manager and can be loaded in the Glass Property Calculator over context menu, by double-click or drag & drop.