



2010



ICG - Technical Committee 13 - Environment



2010

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Vision

Protecting the planet; making glass.



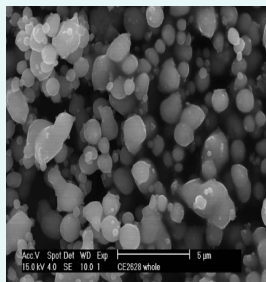
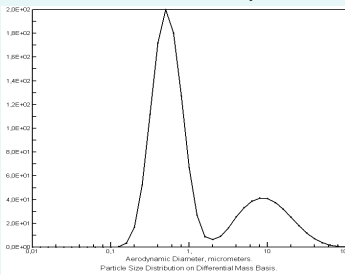
Mission <http://www.icg.group.shef.ac.uk>

The mission of TC13 is to achieve best practice by the exchange of information concerning current and developing techniques for reducing the environmental impact of glass during its production, use and disposal. This shall include the comparison of the results of different control techniques and the determination of best practice for measuring pollutants (primarily: total particulate, NO_x, SO_x, HCl, HF & heavy metals) by means of parallel measurements, material balances, and round robin tests.



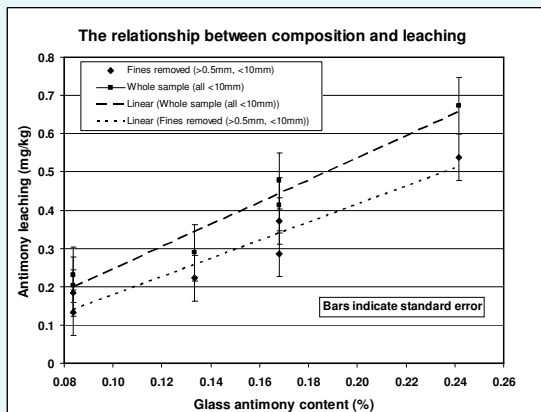
Recent Activities & meetings

- Application of (new) pollution control systems in the glass industry
- Revision of pollution control guidance
- Environmental regulations
- Emission measurements associated to Best Available Techniques – Associated Emission Levels (BAT-AEL)
- REACH¹⁾ and leaching tests
- Paper on selenium (Se) leaching
- Paper on antimony (Sb) leaching
- Development of website
- Emissions of fine particulate matter (PM_{2.5}, PM₁₀)



Projects

- Round Robin on Leaching (2008-2011)



Members

Industry: Guy van Marcke, Simon Slade, Guy Tackels, Andreas Kasper, Dilek Bolcan, Zsuzsa Varga, Denis Lalart, Thomas Hünlich, Anne Rasneur, Etienne Senechal, Hugues Abensour

R&D institutes: John Stockdale, Ruud Beerkens, Hans van Limpt, Karlheinz Gitzhofer, Nicola Favaro, Phil Ross, Petr Beranek



Co-operation with other ICG Technical Committees (future)

Coordination of leaching work in co-operation with TC2 (2010 – 2011)



Action plan for the future

With emission limits becoming tighter and more expansive there is a critical need for better and more reliable measurement methods. TC13 will help provide the glass industry with appropriate and affordable standard protocols and it will help the industry benefit from new monitoring and emission control technologies.



Publications

'Assessment of constituent availability of selenium-containing float glass with regard to the European REACH regulation', A briefing paper by TC13 - The International Commission on Glass' Technical Committee on the Environment (2010)

'Assessment of constituent availability of antimony-containing rolled plate glass with regard to the European REACH regulation', A briefing paper by TC13 - The International Commission on Glass' Technical Committee on the Environment (2010)

Andreas Kasper, Simon Slade, Dilek Bolcan, Guy van Marcke de Lummen, 'Particle Size Measurements in the Flue Gas of Glass Melting Furnaces', 70th Conference on Glass Problems: Ceramic Engineering and Science Proceedings, Volume 31, Issue 1, ISBN: 978-0-470-59466-7 (2010)

'Preliminary report on a method to determine the availability of glass constituents with regard to the European regulation REACH', Technical Annex of REACH Dossier: 'Exemption from registration for glass under REACH regulation n. 1907/2006/EC' by H. Greim, H. Schaeffer and N. Favaro, <http://www.cpviglass.be> (2009)

B. Scalet, S. Slade, A. Kasper, G. van Marcke de Lummen, K. Gitzhofer, H. van Limpt, 'Selenium emissions from glass melting furnaces: formation, sampling and analysis. A position paper by the Technical Committee 13, 'Environment', of the International Commission on Glass (ICG)', Glass Technology – European Journal of Glass Science and Technology Part A 47 [2] 29-38, (2006).

R.G.C. Beerkens, H. Van Limpt, U. Kircher, B.M. Scalet, A. Kasper, G. van Marcke, G. Tackels, G. Delhopital, C. Masy, 'SO₂ emissions and sulphur balances of soda lime glass melting furnaces: Report of the International Commission on Glass (ICG)', Technical Committee 13 Environment, Glass science and technology 72 [10] 303-314 (1999)

¹⁾ **REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals**