

## **Silica Glass (Fused Silica) Manufacturing**

### **T.P. Seward III, Instructor**

#### **Suggested Reading**

“Vitreous Silica,” D.R. Sempolinski and P.M. Schermerhorn, pages 1032-1075, especially pages 1036-1041, in Kirk-Othmer Encyclopedia of Chemical Technology 4th Edition, Vol. 21, John Wiley & Sons, New York, 1994. Also in earlier editions, articles by W. Winship (1<sup>st</sup> Edition); W.H. Dumbaugh and P.C. Schultz (2<sup>nd</sup> Edition, 1969); P.S. Danielson (3<sup>rd</sup> Edition, 1982).

“Unusual Methods of Producing Glasses,” P.C. Schultz and G.W. Scherer, Chapter 2 in Glass Science and Technology, Vol. 1 – Glass Forming Systems, D.R. Uhlmann and N.J. Kreidl, editors, Academic Press, 1983, especially pages 73-89.

“High-Silica Glass,” P.P. Bihuniak, in Advances in Ceramics, Vol. 18, Commercial Glasses, D.C. Boyd and J.F. MacDowell, editors, The American Ceramic Society, Columbus, OH, 1986, pages 105-114.

“Inorganic Glasses – Commercial Glass Families, Applications, Manufacturing and Methods,” T.P. Seward III and A.K. Varshneya, Chapter 6 in Handbook of Ceramics, Glasses, and Diamonds, C.A. Harper, ed., McGraw-Hill, New York, 2001, especially pages 6.57-6.67

Also Chapter 8 in Handbook of Materials for Product Design, C. A. Harper editor, McGraw-Hill, NY, 2001, pages 8.69-8.82. [Note: This is essentially a reissue of Chapter 6, in Handbook of Ceramics, Glasses and Diamonds,” above.]

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