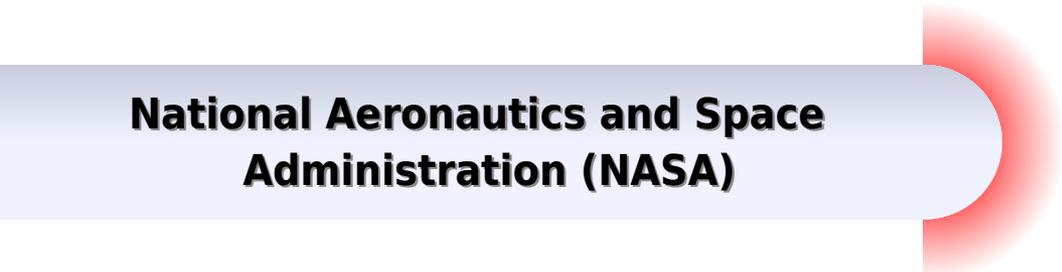




Corrosion Of Glass

**National Aeronautics and Space
Administration (NASA)**



Corrosion Of Glass:

Corrosion of Glass, Ceramics and Ceramic Superconductors David E. Clark, Bruce K. Zaitos, 1992-12-31 A state of the art treatment of glass and ceramic corrosion this book presents fundamental chemical reactions equations computer codes and models and practical examples by 33 leaders in the field

Corrosion of Glass David E. Clark, Carlo George Pantano, Larry Leroy Hench, 1979-01-01

Investigation of Glass Aqueous Corrosion Using Surface Characterization Tools Yuxuan Gong, 2016 The aqueous corrosion of glass is of considerable interest given its critical role in industrial applications biomedical processes and carbon dioxide sequestration in earth's crust Particularly a thorough understanding of corrosion of nuclear waste form glass is a prioritized task for its use in the application of nuclear waste storage under current energy demands The modifier ions in the glass network exchange with hydrogen species upon contact with aqueous solution and this ion exchange process leads to the dissolution of Si from the glass network In order to quantify the kinetics of glass dissolution phenomenological observations of corroded glass has led to the discovery of a hydration coupled ion exchange mechanism of glass corrosion However those observations were mostly based on the corrosion of pulverized glasses or bulk glasses of interest and lacked the use of surface characterization tools in investigating the glass corrosion behavior In this study attention was focused on how surface characterization techniques can contribute to the understanding of glass corrosion Firstly a series of glass surface finishing techniques was evaluated both compositionally and morphologically using X-ray photoelectron spectroscopy and atomic force microscopy Also advanced fractal algorithms were used when analyzing the AFM images in search of an atomically smooth glass surface with surface composition close to the bulk composition For the very first time an aluminoborosilicate glass melt surface prepared by heat treatment was used to develop a novel method of measuring glass dissolution rates and monitoring surface roughening behavior via AFM The obtained glass dissolution rate via AFM is similar to the reported dissolution rates of other glasses with similar composition Additionally it was found that the corrosion of glass can lead to the roughening of glass surfaces A similar relationship was observed using synchrotron radiated X-ray reflectivity and diffuse scattering The XRR and XDS study of two different flat panel silicate glasses highlights a new series of evidence favoring the interfacial dissolution and reprecipitation mechanism of glass dissolution The XRR XDS evidence in favor of this mechanism is also supported by XPS data and associated calculations

[The corrosion of glass](#) R. F. Tylecote, R. E. Clough, 1980

The Chemical Durability of Glass International Commission on Glass. Sub-committee AII., 1972

Glass Corrosion L. L. Hench, W. B. Person, R. W. Gould, D. M. Sanders, M. S. Hill, FLORIDA UNIV GAINESVILLE ENGINEERING AND INDUSTRIAL EXPERIMENT STATION., 1973 An approach is developed for understanding formation of gel films on glass surfaces during water exposure Compositional and microstructural data from IR reflection spectroscopy scanning electron microscopy and electron microprobe analysis are used with parameters defined from solution analysis data to produce a SiO₂ composition profile of the corroded surface This model profile is compared with a measured profile and

used to interpret differences in corrosion resistance of binary Li₂O and Na₂O SiO₂ glasses Effects of corrosion temperature water flow rate cell volume relative humidity pH type of acid residual glassy phase in a glass ceramic and surface roughness on film formation and stability are evaluated The theoretical and experimental basis for using infrared reflection spectroscopy as a quantitative method for glass structural analysis is described and applied to binary alkali silicate and lead germanate glasses X ray amorphous scattering of a K₂O SiO₂ glass confirms the development of a vitreous silica like structure to the surface film Characterization methods for glass are reviewed Author **Glass Corrosion in Natural Environment** National Aeronautics and Space Administration (NASA),2018-07-03 A series of studies of the effects of solutes which appear in natural aqueous environments specifically Mg and Al under controlled conditions permit characterization of the retardation of silicate glass leaching in water containing such solutes In the case of Mg the interaction with the glass appears to consist of exchange with alkali ions present in the glass to a depth of several microns The effect of Al can be observed at much lower levels indicating that the mechanism in the case of Al involves irreversible formation of aluminosilicate species at the glass surface Thorpe Arthur N Unspecified Center NAG5 1057 **The Glass Industry** ,1930 Corrosion of Glass, Ceramics and Ceramic Superconductors ,1992 Glass Corrosion in Natural Environments National Aeronautics and Space Administration (NASA),2018-07-03 Experiments carried out during the progress period are summarized Experiments carried out involving glass samples exposed to solutions of Tris have shown the appearance of spikes upon monitoring glass dissolution as a function of time The periodic spikes observed in Tris based media were interpreted in terms of cracking due to excessive stress in the surface region of the glass Studies of the interactions of silicate glasses with metal ions in buffered media were extended to systems containing Al Caps buffer was used to establish the pH The procedures used are described and the results are given Preliminary studies were initiated as to the feasibility of adding a slowly dissolving solid compound of the additive to the glass water system to maintain a supply of dissolved additive It appears that several magnesium compounds have a suitable combination of solubility and affinity towards silicate glass surfaces to have a pronounced retarding effect on the extraction of uranium from the glass These preliminary findings raise the possibility that introducing a magnesium source into geologic repositories for nuclear waste glass in the form of a sparingly soluble Mg based backfill material may cause a substantial reduction in the extent of long term glass corrosion The studies described also provide mechanistic understanding of the roles of various metal solutes in the leachant Such understanding forms the basis for developing long term predictions of nuclear waste glass durability under repository conditions From what is known about natural highly reduced glasses such as tektites it is clear that iron is dissolved as ferrous iron with little or no ferric iron The reducing conditions were high enough to cause metallic iron to exsolve out of the glass in the form of submicroscopic spherules As the nuclear waste glass is much less reduced a study was initiated on other natural glasses in addition to the nuclear waste glass Extensive measurements were carri The Effects of the Glass

Surface Area/solution Volume Ratio on Glass Corrosion: A Critical Review, 2001 This report reviews and summarizes the present state of knowledge regarding the effects of the glass surface area solution volume SA V ratio on the corrosion behavior of borosilicate waste glasses The SA V ratio affects the rate of glass corrosion through the extent of dilution of corrosion products released from the glass into the leachate solution glass corrosion products are diluted more in tests conducted at low SA V ratios than they are in tests conducted at high SA V ratios Differences in the solution chemistries generated in tests conducted at different SA V ratios then affect the observed glass corrosion behavior Therefore any testing parameter that affects the solution chemistry will also affect the glass corrosion rate The results of static leach tests conducted to assess the effects of the SA V are discussed with regard to the effects of SA V on the solution chemistry Test results show several remaining issues with regard to the long term glass corrosion behavior can the SA V ratio be used as an accelerating parameter to characterize the advanced stages of glass corrosion relevant to long disposal times is the alteration of the glass surface the same in tests conducted at different SA V and in tests conducted with monolithic and crushed glass samples what are the effects of the SA V and the extent of glass corrosion on the disposition of released radionuclides These issues will bear on the prediction of the long term performance of waste glasses during storage The results of an experimental program conducted at ANL to address these and other remaining issues regarding the effects of SA V on glass corrosion are described 288 refs 59 figs 16 tabs *Glass Science* R. H. Doremus, 1994-04 This Second Edition of Robert H Doremus s classic *Glass Science* has been extensively revised and updated to reflect recent advances while retaining the pedagogical structure that made its predecessor a superb tool for both teaching and professional research Special emphasis is placed on areas of research that have been particularly active in recent years Two new chapters have been added one covers chemical durability the reaction of glass with water which includes recent work related to corrosion of glass and radioactive waste disposal the other concerns the reaction of gasses with glass especially oxygen Other new or expanded discussions cover recent advances in the structure of glass zirconium fluoride glasses and electrical conductivity of glass

83rd Conference on Glass Problems, Volume 271 S. K. Sundaram, 2023-07-25 The 83rd Conference on Glass Problems GPC was organized by the Kazuo Inamori School of Engineering The New York State College of Ceramics Alfred University NY and The Glass Manufacturing Industry Council GMIC Westerville OH The Program Director was S K Sundaram Inamori Professor of Materials Science and Engineering Kazuo Inamori School of Engineering The New York State College of Ceramics Alfred University Alfred NY The Conference Director was Bob Lipetz Executive Director GMIC Westerville OH The GPC Advisory Board AB included the Program Director the Conference Director and several industry representatives The Board assembled the technical program Donna Banks of the GMIC coordinated the events and provided support It started with a full day plenary session followed by technical sessions

Glass Corrosion and Irradiation Damage Performance, 1995 **Aqueous Corrosion of Glass** Maria Zafiroopoulos, 1982 **Journal of the Society of Glass Technology** Society

of Glass Technology, 1922 **Journal of the Society of Glass Technology** Society of glass technology, Sheffield, Eng, 1919
Year Book Carnegie Institution of Washington, 1925 Advances in Fusion and Processing of Glass III James R.
Varner, Thomas P. Seward, III, Helmut A. Schaeffer, 2012-04-11 Glass continues to be a material of great scientific and
technological interest however the economic pressures on the glass industry the emphasis on global markets and the
worldwide attention to energy and environmental conservation continue to increase Forty seven papers offer new solutions to
the challenges of glass manufacturing particularly as they pertain to melting and forming Proceedings of the 7th
International Conference on Advances in Fusion and Processing of Glass July 27 31 2003 Rochester New York Ceramic
Transactions Volume 141 **Corrosion and Structural Changes in Glass** L. L. Hench, R. W. Gould, R. E. Reed-Hill, W. B.
Person, D. M. Sanders, FLORIDA UNIV GAINESVILLE DEPT OF MATERIALS SCIENCE AND ENGINEERING., 1974 New
methods for obtaining a quantitative description of surface and bulk structural changes in glass are described The new
techniques include X ray diffraction analysis of amorphous solids using pair function and disorder distribution functions
Application of the X ray method to glass corrosion thermal treatments glass fabrication variables and fast neutron damage is
reviewed Infrared reflection spectroscopy IRRS was developed in the contract as a rapid nondestructive tool for
characterizing the surface of bulk glass samples Scanning electron microscopy with X ray dispersive analysis and electron
microprobe analysis were used to confirm interpretations Auger electron spectroscopy with ion beam milling was also
applied to glass surface corrosion analysis of ternary glass systems Several areas of proposed research using these new
methods are presented Abstracts of 20 papers prepared during the contract are included Modified author abstract

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