

FILMTEC Membranes

Water Chemistry and Pretreatment Silica Scale Prevention

Silica Scale Prevention

Dissolved silica (SiO₂) is naturally present in most feed waters in the range of 1–100 mg/L. The prevailing forms of silica are meta silicic acids as (H₂SiO₂), with low n numbers. Since silicic acid is a weak acid, it is mostly in the undissociated form at or below a neutral pH. Supersaturated silicic acid can further polymerize to form insoluble colloidal silica or silica get, which can cause membrane scaling. The maximum allowable SiO₂ concentration in the concentrate stream is based on the solubility of SiO₂.

The scaling potential for the concentrate stream will be quite different from that of the feed solution because of the increase in the concentration of SiO₂ and the change in pH. It can be calculated from the feed water analysis and the RO operating parameters.

As the pH exceeds neutral, silidic acid dissociates into the silicate anion (SiO₃*)₃. This canreact with calcium, magnesium, iron, manganese or aluminum to form insoluble silicates.

It was indicated that aluminum is the most powerful predpitant of silicic acid / 12, and the occurrence of silica scaling is mostly correlated with the occurrence of aluminum or iron / 13. It has been reported that, when AP and Fe⁻ coexist in the pretreated feed water, silical is predipitated even below its saturation / 14, 15. Both AP and Fe⁻, therefore, must be less than 0.05 mg/L in the feed water, even if the silica level is below saturation. Since AP and Fe⁻ salts are used for coagulation in municipal and other industrial water processing, frequent and accurate measurements of these ions are needed even though the feed water itself does not contain high levels of aluminum and iron ions. Fouling with metal silicates may occur from a chemical reaction and precipitation process (scaling), and also from colloidal fouling with submicron particles entering the membrane system. Feed water acidification and preventive acid deanings are possible measures in cases of a metal silical scaling potential. If colloidal silica and silicates are present in the feed water, a flocculation/filtration process and/or a fine grade prefilter (1 µm or less) should be chosen.

The scaling potential of soluble silica (silicic acid) in the absence of trivalent metal cations can be calculated as follows. The calculation requires the following data for the feed solution (after acid addition, if acid is used for control of calcium carbonate):

- SiO₂ concentration
- Temperature
- pitt.
- Total alkalinity

Calculation /16/

The SiO₂ concentration in the concentrate stream is calculated from the SiO₂ concentration in the feed solution and the recovery of the reverse comosis system:

$$SiO_{2e} = SO_{2e} \left(\frac{1}{1-Y} \right)$$

swifteness:

SiO_b = silica concentration in concentrate as SiO_b, mg/L

SiO₂₇ = silica concentration in feed as SiO₂, mg/L

Y = recovery of the reverse ognosis system, expressed as a decimal

 Calculate the pH of the concentrate stream from the pH of the feed stream using the procedure given in Calcium Carbonate Scale Prevention (Section 2.4.2).

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Chris Grover

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Technical Manual United States. War Department, 1943 **Desalination** National Research Council Division on Earth and Life Studies, Water Science and Technology Board, Committee on Advancing Desalination Technology, 2008-09-14 There has been an exponential increase in desalination capacity both globally and nationally since 1960 fueled in part by growing concern for local water scarcity and made possible to a great extent by a major federal investment for desalination research and development Traditional sources of supply are increasingly expensive unavailable or controversial but desalination technology offers the potential to substantially reduce water scarcity by converting the almost inexhaustible supply of seawater and the apparently vast quantities of brackish groundwater into new sources of freshwater Desalination assesses the state of the art in relevant desalination technologies and factors such as cost and implementation challenges It also describes reasonable long term goals for advancing desalination technology posits recommendations for action and research estimates the funding necessary to support the proposed research agenda and identifies appropriate roles for governmental and nongovernmental entities Water Management Igbal M. Mujtaba, Thokozani Majozi, Mutiu Kolade Amosa, 2018-11-05 Exponential growth in population and improved standards of living demand increasing amount of freshwater and are putting serious strain on the quantity of naturally available freshwater worldwide Water Management Social and Technological Perspectives discusses developments in energy efficient water production management wastewater treatment and social and political aspects related to water management and re use of treated water It features a scientific and technological perspective to meeting current and future needs discussing such technologies as membrane separation using reverse osmosis the use of nanoparticles for adsorption of impurities from wastewater and the use of thermal methods for desalination The book also discusses increasing the efficiency of water usage in industrial agricultural and domestic applications to ensure a sustainable system of water production usage and recycling With 30 chapters authored by internationally renowned experts this work offers readers a comprehensive view of both social and technological outlooks to help solve this global issue Desalination Sustainability Hassan Arafat, 2017-06-09 Desalination Sustainability A Technical Socioeconomic and Environmental Approach presents a technical socioeconomical and environmental approach that guides researchers and technology developers on how to quantify the energy efficiency of a proposed desalination process using thermodynamics based tools The book offers the technical reader an understanding of the issues related to desalination sustainability For example technology users such as public utility managers will gain the ability and tools to assess whether or not desalination is a good choice for a city or country Readers will learn new insights on a clear and practical methodology on how to probe the economic feasibility of desalination using simple and effective tools such as levelized cost of water LCOW calculation Decision makers will find this book to be a valuable resource for the preliminary assessment of whether renewable powered desalination is a good choice for their particular setting Presents the issues related to desalination

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understanding of the various facets of desalination Pharmaceutical Water William V. Collentro, 2016-04-19 A major new work on all aspects of water the most used raw material ingredient in the pharmaceutical and biotechnology industries used as an excipient in pharmaceutical formulations as a cleaning agent and as a separately packaged product diluent Drawing on the author's extensive field experience with more than 400 pharmaceutical and related wat **Development of Predictive Tools for Membrane Ageing** Pierre LeClech, 2014-03-15 This study increases our current understanding on the degradation ageing mechanisms occurring on porous membranes used in the water and wastewater industries Accelerated membrane degradation was obtained through both static and consecutive ageing protocols on the pilot scale and a range of carefully selected characterisation and analytical techniques was used to characterise the nascent changes faced by the membrane material The report covers four interrelated sections Critical assessment of characterisation techniques Static accelerated ageing Consecutive accelerated ageing Consecutive ageing of industrially aged membranes This final report summarises the aims objectives outcomes and limitations of the individual work packages along with some recommendations for future work This book is co published with Water Research Australia Green and Sustainable Chemistry and Engineering Concepción Jiménez-González, David J. C. Constable, 2025-07-02 The first textbook to fully integrate Green and Sustainable Chemistry and Engineering now in its second edition Green and Sustainable Chemistry and Engineering addresses key concepts and processes from an industrial and manufacturing perspective Using an integrated systems oriented approach this invaluable single volume resource bridges the divide between chemistry process design and engineering as well as environment health safety and life cycle considerations. This revised new edition discusses trends in chemical processing that can lead to more sustainable practices explores new methods in the design of greener chemical synthesis addresses sustainability challenges and implementation issues and more Up to date examples and new practical exercises based on the broad experience of the authors in applied and fundamental research corporate consulting and education are incorporated throughout the text Designed to advance green chemistry and green engineering as disciplines in the broader context of sustainability Green and Sustainable Chemistry and Engineering Illustrates the role of green and sustainable chemistry and engineering in the adoption of sustainable practices Describes the components of chemistry supporting the design of sustainable chemical reactions and reaction pathways Presents an approach to materials selection promoting the sustainability of chemical synthesis without diminishing efficiency Highlights key concepts that support the design of more sustainable chemical processes Provides background and context for placing a particular chemical process in the broader chemical enterprise Includes access to a companion website with a solutions manual and supplementary resources Green and Sustainable Chemistry and Engineering A Practical Design Approach Second Edition remains an ideal textbook for graduate and senior level courses in Chemistry and Chemical Engineering and an invaluable reference for chemists and engineers in manufacturing and R D especially those working in fine chemicals and pharmaceuticals Green Chemistry and

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