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 The PQ Corporation

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Bulletin 24-1

PQ® Soluble Silicates in Refractory and Chemical-Resistant Cements

INTRODUCTION

PQ Soluble Silicates are used effectively as binders where heat stability or resistance to chemicals is required. Silicate binders develop high green strength by air-setting without heat. They also impart increased fired strength, are easy and safe to handle, low in price, non-corrosive, form no fumes or fire hazards and resist deterioration after placement. Consequently, air-setting specialties containing soluble silicates are used in refractory mortars and ramming, gunning and patching mixes in practically all refractory or chemical-resistant construction and in their maintenance. Some examples include:

boilers	heat treating furnaces
incinerators	ladle linings
cupolas	catalytic cracking chambers
smelting furnaces	sewage works
coke ovens	chimney construction
blast furnaces	sulfite digesters
open-hearths	electrolytic cells
electric steel furnaces	acid manufacturing
oxygen converters	soaking pits

The liquid sodium silicates are solutions of water soluble glasses manufactured from varied proportions of Na_2CO_3 and SiO_2 . They are available in a variety of $\text{SiO}_2/\text{Na}_2\text{O}$ weight ratios ranging from 1.6 (highly alkaline) to 3.22 (highly siliceous). In addition to the liquid sodium silicates, PQ produces a wide variety of solid products to meet the needs of different formulations. They range from highly soluble powders to lumps of transparent glass.

The potassium silicates are solutions manufactured from varied proportions of K_2CO_3 and SiO_2 . They are available in $\text{SiO}_2 : \text{K}_2\text{O}$ weight ratios of 2.5 and 2.1. Table 1 lists the compositions and properties of the PQ sodium and potassium silicates used in refractory and chemical resistant cements.

EFFECTS OF SILICATE COMPOSITION

The highly siliceous (high $\text{SiO}_2/\text{Na}_2\text{O}$ ratio) sodium silicates tend to air dry rapidly. They are the most refractory of the sodium silicates as well as the most resistant to acids. Because the total solids of these high ratio silicate solutions are relatively low, compared to the lower ratio solutions, a cement containing a high ratio solution will necessarily contain more water.

Soluble Silicates

James Garrett Vail



Soluble Silicates:

Soluble Silicates James S. Falcone,1982 **Soluble Silicates in Industry** James Garrett Vail,1928 Soluble Silicates: Chemistry James Garrett Vail,1952 *Soluble Silicates: Technology* James Garrett Vail,1952 **Soluble Silicates** James Garrett Vail,1952 *Soluble silicates* James G. Vail,1960 **Soluble Silicates** James S. Falcone,1982

Soluble Silicates: Technology James Garrett Vail,1952 **A Practical Treatise on Soluble Or Water Glass, Silicates of Soda and Potash** Lewis Feuchtwanger,1870 **Hazardous Waste Site Soil Remediation** David J. Wilson,1993-10-28 Introduces the most up to date techniques for soil remediation including chemical fixation stabilization soil vapor extraction thermally enhanced vapor stripping biodegradation and air sparging written in a style accessible to nonspecialists Describes the essential technique of thermal desorption of soil contaminants a low cost alternative to incineration for the removal of organics Manual of determinative mineralogy with an introduction on blow-pipe analysis George Jarvis Brush,1898 **Oilfield Chemistry and its Environmental Impact** Henry A. Craddock,2018-05-14

Consolidates the many different chemistries being employed to provide environmentally acceptable products through the upstream oil and gas industry This book discusses the development and application of green chemistry in the oil and gas exploration and production industry over the last 25 years bringing together the various chemistries that are utilised for creating suitable environmental products Written by a highly respected consultant to the oil and gas industry it introduces readers to the principles and development of green chemistry in general and the regulatory framework specific to the oil and gas sector in the North Sea area and elsewhere in the world It also explores economic drivers pertaining to the application of green chemistry in the sector Topics covered in Oilfield Chemistry and its Environmental Impact include polymer chemistry surfactants and amphiphiles phosphorus chemistry inorganic salts low molecular weight organics silicon chemistry and green solvents It also looks at sustainability in an extractive industry examining the approaches used and the other methodologies that could be applied in the development of better chemistries along with discussions about where the application of green chemistry is leading in this industry sector Provides the reader with a ready source of reference when considering what chemistries are appropriate for application to oilfield problems and looking for green chemistry solutions Brings together the pertinent regulations which workers in the field will find useful alongside the chemistries which meet the regulatory requirements Written by a well known specialist with a combined knowledge of chemistry manufacturing procedures and environmental issues Oilfield Chemistry and its Environmental Impact is an excellent book for oil and gas industry professionals as well as scientists academic researchers students and policy makers **Journal of the Society of Glass Technology** Society of Glass Technology,1929 **A Course of Qualitative Chemical Analysis** William George Valentin,1874 A Course of Qualitative Chemical Analysis, Etc. (Second Edition.) William George VALENTIN,1874

Monograph Series ,1928 **Monograph Series** American Chemical Society,1928 **Water-glass** Carnegie Library of

Pittsburgh, 1922 Rothamsted Memoirs Rothamsted Experimental Station, 1928
Chemical Analysis John Howard Appleton, 1896

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In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become much more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Soluble Silicates**," written by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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