

# Glass Technology

## Description:

Glass is a non-crystalline amorphous solid that is often transparent and has widespread practical, technological, and decorative usage in, for example, window panes, tableware, and optoelectronics. The most familiar, and historically the oldest, types of glass are "silicate glasses" based on the chemical compound silica (silicon dioxide, or quartz), the primary constituent of sand. The term glass, in popular usage, is often used to refer only to this type of material, which is familiar from use as window glass and in glass bottles. Of the many silica-based glasses that exist, ordinary glazing and container glass is formed from a specific type called soda-lime glass, composed of approximately 75% silicon dioxide (SiO<sub>2</sub>), sodium oxide (Na<sub>2</sub>O) from sodium carbonate (Na<sub>2</sub>CO<sub>3</sub>), calcium oxide, also called lime (CaO), and several minor additives. There are various methods of glass making other than melting for example condensation of vapours, conversion of crystals to an amorphous form using mechanical means or irradiation with fast neutrons, dehydration and sintering of gels, etc. The properties of glass can be varied and regulated over an extensive range by modifying the composition, production techniques, or both. In any glass, the mechanical, chemical, optical, and thermal properties cannot occur separately. Instead, any glass represents a combination of properties, and in selecting an individual glass for a product, it is this combination that is important.

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**Keywords:** New glass technology, Advanced Glass Technologies, glass technology India, Leading Glass Technology, Glass Science and Technology, New Innovations and Trends in Glass, Advanced Glass Technology, Liquid Glass?, Great Opportunity for Startup in glass technology, making glass, Glass Manufacturing Process, How Glass is Made, glass manufacturing process raw materials, Production of glass, Glass Processing Industry in India, Indian glass industry, Step-by-step Manufacturing of Glass, Glass and Glass P

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