



**TAS Flowrance group**

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# Silica sand

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## **TAS Flowrance group**

**was established to cover all the Activities in the world of marble, granite, silica sand, sandstone, Phosphate, Quartz rock, potassium Feldspar, fluorite (calcium fluorite) Talc lump, talc powder, dolomite, and iron oxide , we have our quarries and mine for Egyptian materials. We are consider one of manufactures and exporters for the world wide requested Egyptian materials of marble, granite, silica, sandstone, Phosphate, Quartz rock , potassium Feldspar, fluorite Talc lump, talc powder, dolomite**

### **Products**

**Marble**

**Granite**

**Surface**

**Sandstone**

**• Limestone**

**Fluorite Calcium**

**Quartz**

**Phosphate**

**Feldspar**

**Talc**

**Silica Sand**

**Dolomite**



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## Silica sand

**Silica sand** is one of the most common varieties of **sand** found in the world. It is used for a wide range of applications, and can be purchased from various suppliers throughout the world. **Silica sand** is used in industrial processing, to make **glass**, as fill, and to create molds and castings.



**Silica sand** is used throughout the world, and in so many different ways it is hard to imagine a world without it. From water filtration, to **glass manufacture**, to industrial casting, to **sand blasting**, to producing concrete, to adding texture to slick roads, **silica sand** impacts every aspect of daily life. Many industrial suppliers carry **silica sand** in bulk quantities, while some smaller household stores sell it in smaller amounts for home or home construction use. One of the major uses of **silica sand** in the modern world is as an ingredient in industrial concrete. **Silica sand produces** the bulk of a great deal of concrete, although some concrete bypasses its use for safety and strength reasons. At industrial scales, **silica sand** can cost less than \$0.50 US Dollars (USD) per pound, while the consumer rate is around \$1.50 USD per pound.



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## Silica sand



SILICA is the most abundant mineral found in the crust of the earth.

It forms an important constituent of practically all rock-forming minerals. It is found in a variety of forms, as quartz crystals, massive forming hills, quartz sand (**silica sand**), sandstone, quartzite, Tripoli, diatomite, flint, opal, chalcedonic forms like agate, onyx etc., and in with numerous other forms depending upon color such as purple quartz (amethyst), smoky quartz, yellow quartz or false topaz (citrine), rose quartz and milky quartz. Only pure quartz crystal or rock crystal, untwined, clear, free from any inclusion, has an important property:

It expands (mechanically) under the influence of electric current and conversely pressure induces a measurable electric current. This property is known as piezoelectricity. The current thus developed is



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called piezoelectric current.

This property resulting from the asymmetry of its atomic groups makes quartz an effective transducer for converting electrical energy into mechanical energy and vice-versa. This property in quartz crystals was discovered in 1880-82 by Pierre and Jacques Curie and remained a laboratory curiosity till in 1921 when W.G. Cady, a physicist, discovered that quartz plates could be used to control the frequency of wireless transmission circuits.



This discovery marked the dawn of quartz crystal application in modern communication equipments. A very thin plate of quartz is so cut that the frequency of the oscillating circuit corresponds with the quartz plate and when such plate is inserted in a radio receiving set or radio transmitter it prevents frequencies from wandering and deviation and greatly reduces interference.



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In Egypt there are two main locations of high quality **silica sand** 1st, Zaafrana – red sea and the 2nd, north and south Sinai , The reseves in Zaafrana area and Sinai are over thousands milion ton of high quality **silica sand** . which supply the glass industries , paints , foundries , chemicals and ceramics.

**Silica sand** for glass, **Silica sand** for crystal, **Silica sand** for foundry, **Silica sand** for painting, **Silica Sand** for oil and gas ,**Silica Sand** for Stamped concrete ,**Silica Sand** for water filtration ,**Silica Sand** for gulf Course, **Silica Sand** for water treatment, **Silica sand** for plastering ,**Silica Sand** for sand plastering and for many many uses.etc

