



HANDASATI

PRODUCT
PROFILE
SILICA

WWW.HANDASATI.COM

OUR COMPANY

Handasati for Contracting, Trading & Wood works for contracting was established according to unique standards and deep experience in spired by its vision of construction. Our services are of the highest quality and workmanship

ABOUT US

Therefore, we ensured continuous development to upgrade our system, policies and strategic plans, which we contribute actively to enrich our society and earn the trust of our clients, through the consolidation principles: credibility, professionalism and commitment. Handasati for Contracting, Trading & Wood works is one of the leading companies in KSA, specialized in the field of construction and has gained vast experience and has made its name in the construction fields.

OUR SERVICES

At Handasati for Contracting, Trading & Wood works Company we enjoy the extensive experience we have gained through the execution of many projects in the areas of: infrastructure for all construction projects, roads, educational institution buildings, Industrial & commercial buildings, electromechanical works, water and sewage networks, water treatment plants, military projects, gardens and improvement of cities. Oil & Gas On-shore related Projects. Pipeline, Gasoil separation plant, Tank farms & Refineries Etc.. Operations & Maintenance for the Buildings and palaces.

we enjoy the extensive experience



We have expanded our field of work to include the execution of the highest quality construction projects, where the stages of work begin with a feasibility study for the project and the initial design development, followed by the detailed design and construction process and construction work and then the phase ends with the construction work after that of maintenance and operating, including government buildings, commercial buildings, industrial buildings, educational institutions.

OUR ASPIRATIONS

The continues pursuit of excellence, which the company has always seek to transform it into a reality that enables it to provide the best engineering and contracting services to its Clients, which opened up new horizons to work in a spirit of excellence and forecast the expected financial estimates in the next years. We always strive to keep up with the latest technologies and modernity in the world of contracting.

WHAT DISTINGUISHES US

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vel intiisqui utatess imporunt

1

11 YEARS OF EXPERIENCE

Since 2010, we have started by a constant struggle and a hectic race to achieve advanced positions in the field of contracting, we have gone through all the stages, we have passed the odds, and we have made it to become a part of our daily life that is indispensable.

2

INNOVATIVE AND EFFECTIVE SOLUTIONS

Our research and development team is taking care of this task, the traditional solutions are no longer satisfying our ambitions. Technical and technological methods are in spectacular twist which inspire us to offer solutions and services which satisfy our passion, and therefore, expect to hear what the unexpected, and see what you don't imagine, but you will be definitely happy with it.

3

PIONEERS IN CONTRACTING

It is not easy to take the lead in a large and challenging sector such as the contracting sector and will not pass the intense competition except by excellence. Long experience and high quality with the use of the latest technologies and mechanisms guaranteed for us an advanced leadership position. Our ability to execute projects, no matter how large and high quality, has strengthened our position as one of the important and essential pillars of the constructing sector in the Kingdom.

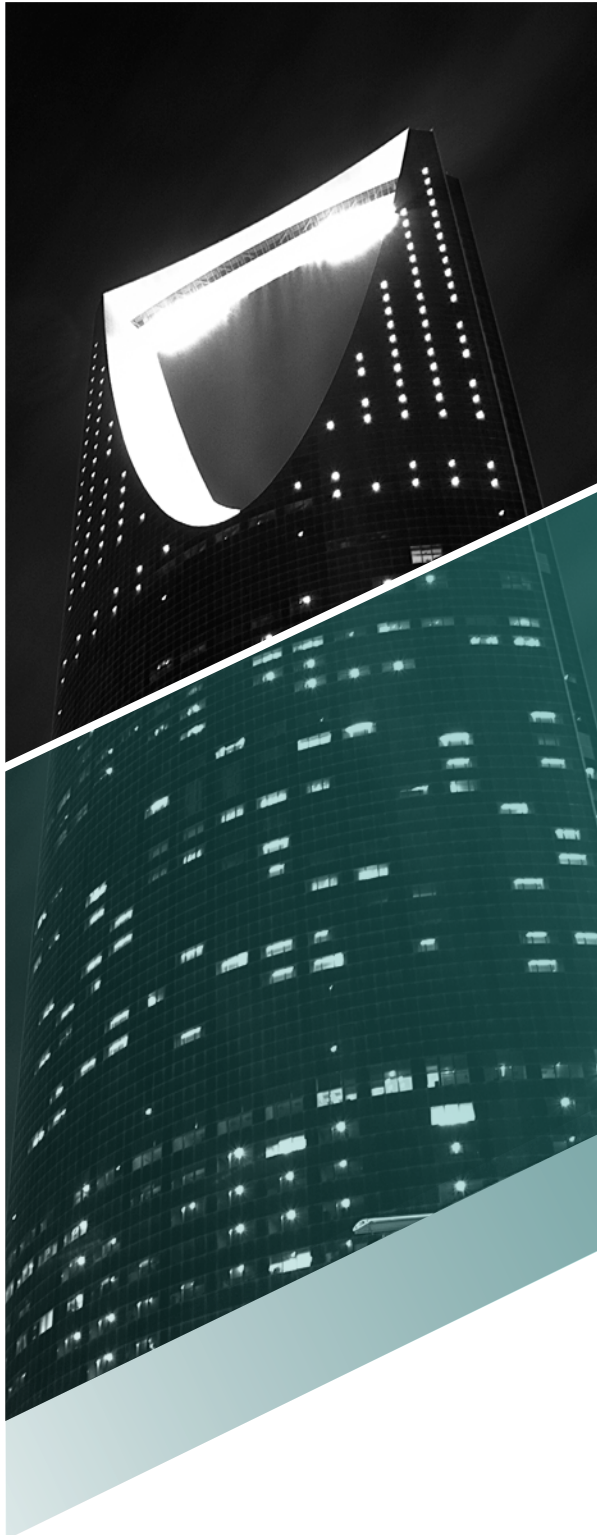
4

DEVELOPMENT AND TRAINING

Investing is the most successful investment ever, as well as our principle of selectivity in selecting competencies is based on personal skills such as positive, striving for continuous training and embracing core values such as cooperation and credibility, we build efficiency of our team, the career development was one of their rights, as we were keen to hone their skills and continue to provide a healthy working environment and adopt a policy of motivation, all to ensure their comfort thus to get the maximum productivity and quality as this is what we gain.



OUR VALUES & PRINCIPLES



WE STRIVE IN A SUSTAINABLE WAY

to implement the innovative concept in the construction works and infrastructure to provide everything that is creative according to the latest science and engineering theories. With our full commitment in the embodiment the effective partnership to achieve success and full satisfaction.

TRANSPARENCY

trust and credibility with Clients, subcontractors, and allies in engineering projects in the region.

CLIENT SATISFACTION

is our first concern and priorities. High professional quality, credibility and honesty, transparency and clarity, Innovation and creativity, fast performance and execution, and developing the skills of the Engineering, Technical and Administrative staff of the company.

WE WORK ON CREATING

a unique value every day, and we pledge to be better each year than before



SILICA





SILICA SAND



SILICA GRAVEL



SILICA POWDER



SILICA LUMPS

SILICA

We are a Commercial Group having Diverse & Multiple Business Interests in Various Commercial Segments spread across a wide geographical area. Our Strength are our people who have more than a decade's experience as a minimum, in the fields they specialise in.

Silica Sand, also known as Quartz Sand, White Sand, or Industrial Sand, is made up of 2 main elements: silica and oxygen. Specifically, silica sand is made up of Silicon Dioxide (SiO_2).

We Specialize in Silica Extraction & Processing of highest quality, in Micro & Other Sizes, and in Washed & Dry Varieties, in any Industrial Quantity.

Our Mining operations cover a series of mines of highest qualities Silica & Silica Products located in Riyadh SouthEast Zone, and we do it not only as a commercial responsibility but as a core business principle.

We provide the highest purity silica products to buyers around the world for a variety of industrial & Commercial purposes. Our high pure silica can be purchased in particle sizes ranging from less than 100 micron to 900 micron & also from 1 mm to 5 mm sizes. Also we have silica gravel for all range of sizes.



HANDASATI

USES IN & AS

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FRAC SAND

In 'Plug & Perf Methods' in Oil & Gas Industry in Oil & Gas Recovery Processes in Frac-ing. Silica Sand is pumped down holes in deep well applications to prop open rock fissures and increase the flow rate of natural gas or oil. In this specialized application, round, whole grain deposits are used to maximize permeability and prevent formation cuttings from entering the well bore. Silica's hardness and its overall structural integrity combine to deliver the required crush resistance of the high pressures present in wells up to 2,450 metres deep. Its chemical purity is required to resist chemical attack in



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2

MAIN COMPONENT OF GLASS-MAKING:

Pulverised & Ground Silica Sand is the basic ingredient in all sort of standard & specialty Glass Making: Glass for Building & Automotive Use ; Container Glass for Food & Beverages ;Table-ware ; Fiberglass Insulation ; Reinforced Fiberglass ; Test Tube & Other Scientific Tools ; Incandescent & Fluorescent Lamps ; TV & Computer CRT Monitors ;

3

METAL CASTING & METAL PRODUCTION

In Ferrous & Non-Ferrous Foundries. Cores & Moulds. and As FLUX In production of Ferrous & Non-Ferrous both metals. Lump Silica is used alone or in conjunction with Limestone, to refine & purify & add strength & Corrosion Resistance.

4

INDUSTRIAL ABRASIVES

Used as a mineral abrasive for Industrial Blasting , with PPE used against the dust.

5

CHEMICAL PRODUCTION

Industrial Sand is the main component in producing Sodium Silicate , Sodium Tetrachloride , & Silicone Gels which are used to produce Household & Industrial Cleaners , manufacture Fiber Optics , and to Purify Cooking Oils & Brewed Beverages. Silicon-based chemicals are the foundation of thousands of everyday applications ranging from food processing to soap and dye production.

6

CONSTRUCTION

Whole grain silica is put to use in flooring compounds, mortars, specialty cements, stucco, roofing shingles, skid resistant surfaces, and asphalt mixtures to provide packing density and flexural strength without adversely affecting the chemical properties of the binding system. Ground silica performs as a functional extender to add durability and anti-corrosion and weathering properties in epoxy-based compounds, sealants, and caulks.

7

FILTRATION & WATER TREATMENT

Silica sand is an effective filtration bed in the removal of contaminants in both processing of wastewater and in the filtration of the drinking water. Silica sand neutralizes the acidic elements to maintain optimal pH balance in water filters. As it is chemically inert, it will not react when exposed to acids, contaminants, volatile organics or solvents. Silica Gravel is used as packing material in deep-water wells to increase yield from the aquifer by expanding the permeable zone around the well screen and preventing the infiltration of fine particles from the formation.

USES IN & AS

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CERAMICS & REFRACTORIES

Ground silica is an essential component of the glaze and body formulations of all types of ceramic products, including tableware, sanitary ware, and floor and wall tile. In the ceramic body, silica is the skeletal structure upon which clays and flux components attach. The SiO_2 contribution is used to modify thermal expansion, regulate drying and shrinkage, and improve structural integrity and appearance. Silica products are also used as the primary aggregate in both shape and monolithic type refractories to provide high temperature resistance to acidic attack in industrial furnaces.

9

PAINTS & COATINGS

Paint formulators select micron-sized industrial sands to improve the appearance and durability of architectural and industrial paint and coatings. High purity silica contributes critical performance properties such as brightness and reflectance, colour consistency, and oil absorption. In architectural paints, silica fillers improve tint retention, durability, and resistance to dirt, mildew, cracking, and weathering. Low oil absorption allows increased pigment loading for improved finish colour. In marine and maintenance coatings, the durability of silica imparts excellent abrasion and corrosion resistance.

10

RECREATIONAL PRODUCTS

used for golf course bunkers and greens as well as the construction of natural or synthetic athletic fields. In sports turf applications, it is the structural component of an inert, uncontaminated growing media. also used to repair greens & to facilitate everyday maintenance like root aeration and fertilization. The natural grain shape and controlled particle size distribution of silica provides the required permeability and compaction properties for drainage, healthy plant growth, and stability.


HANDASATI

**OUR
EXPERIENCE
IS YOUR
ADVANTAGE**

OUR VALUES CLIENTS



المؤسسة العامة لتحلية المياه المالحة
Saline Water Conversion Corporation (SWCC)



شركة السعودية للكهرباء
Saudi Electricity Company



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