



NEWSTAR STONE

Quartz export

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Newstar stone quartz 1

Newstar is a very strength comprehensive manufacturer of stone products, is one of the most important companies producing quartz surfaces with “engineered stone” technology, located in Quanzhou Fujian, China.

Our factory in Shuitou brings in the international leading technology, adopt the fully automated production lines. Our annual production capacity could be up to 300,000 square meters. This technology is also being brought in to our other factories. Expected in the next three years, the company’ s total production capacity will be doubled. With the spirit of “customer first, integrity management” , Newstar bring every customer of family care, making customer’ s each cooperation with us a best experience and enjoyment.







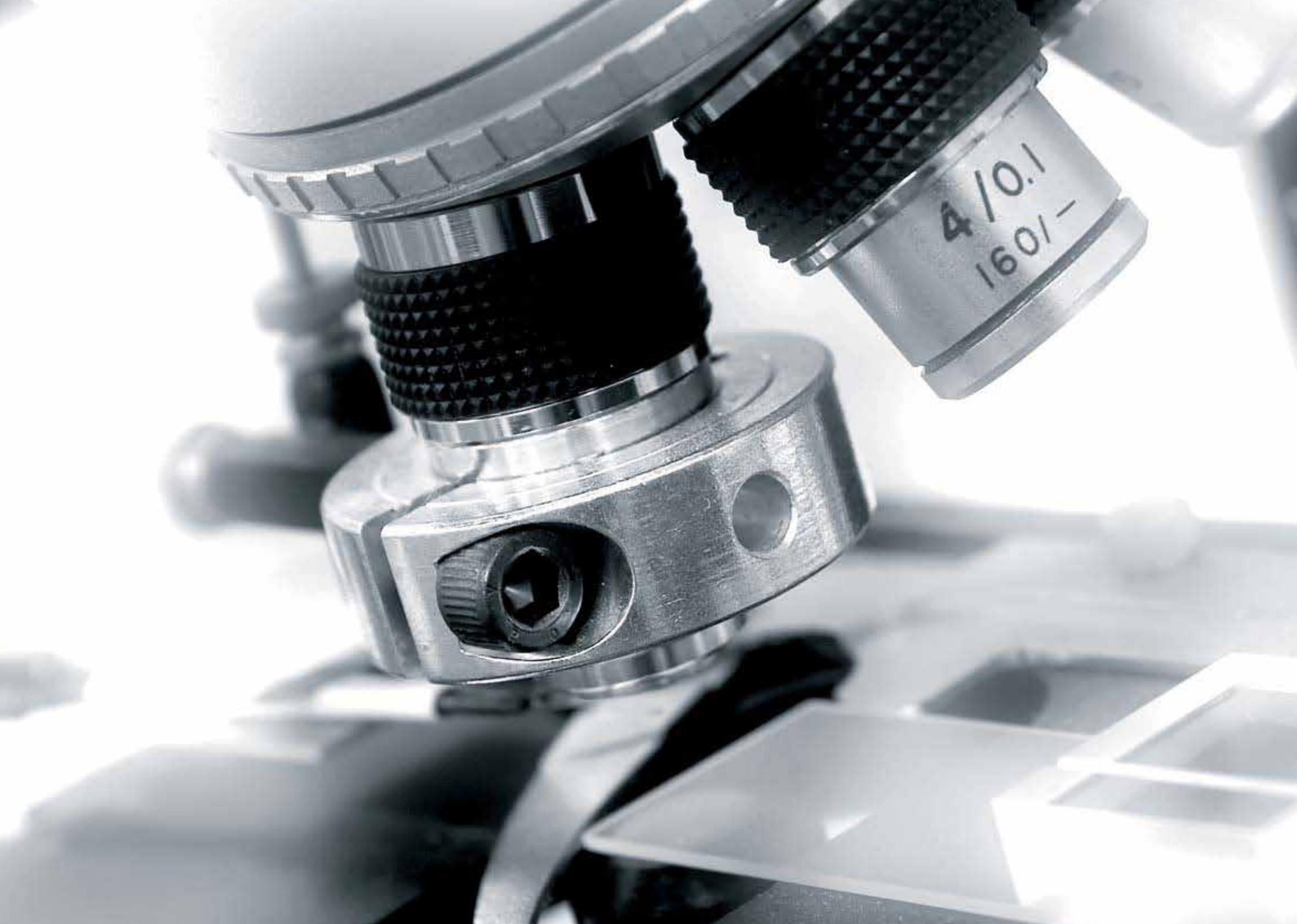
What is technological quartz?

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The technological quartz is a surface composed of up to 95% natural quartz in which pigments and resins are added and by a process called "engineered stone" are compacted by vacuum vibrocompression obtaining a material with high resistance and decorative qualities.

Quartz is one of the most abundant minerals on the Earth's crust, and it comes in a very wide range of types of qualities. The Mohs scale, which compares the hardness of minerals depending on their capacity to score the surface of softer minerals, places quartz in position number 7, under the hardest elements: diamonds (10), corundum (sapphire) (9), and topaz (8).





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160 / -



KEY ADVANTAGES

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High hardness and resistance to abrasion and scratching.



Practically zero porosity, preventing the absorption of water or other liquid. Consequently the Newstar technological quartz does not need antibacterial chemicals, since the absence of pores prevents bacteria acting as a natural bacteriostatic.



Resistant to fats, oils and acids from foods: lemon, tomato, wine, etc. Great flexural strength and impact resistance.



Easy to clean and maintain.



Uses and applications versatility: ideal for kitchen and bathroom countertops, floors, walls, and for surfaces that have to withstand high traffic of people: shopping centres, airports, government buildings, etc.





The resins BIO technological innovation

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Adding BIO resins during the production processes Newstar has created a new quartz product with superior physical, mechanical and decorative features and more respectful to the environment.

A good R + D + I department job has made Newstar to achieve a technologically advanced product, increasing its resistance to abrasion, UV and with lower internal stresses.

Incorporating BIO resins from renewable plant sources is a very important technological advance to the market and benefits the entire distribution channel, especially in the handling by fabricators because of its lower shrinkage and internal stresses, supports better the bending, increases its impact resistance,

cracks and cutting fissures, minimizing the slabs' curvature during the storage and, due to its hardness, makes easier the polishing and finishing work.

From renewable plant sources, Bio resins produce no volatile emissions to the atmosphere, resulting in a safer and healthier product for the whole society.





Applications and uses

Newstar Quartz is highly recommended for household surfaces that come into contact with fatty foods or cleaning products; Such as countertops, walls and floors in kitchens and bathrooms. Extraordinary technical properties such as hardness, strength, zero porosity and easy maintenance make the material suitable.









Due its low porosity it is perfect to be used in places where water and moisture are frequent: gyms, sports centres, spas, locker rooms and showers. Strength and versatility make it the ideal product for all those places which have to support high traffic of people: cinemas, shopping centres, hospitals, airports, government buildings etc. For such places ease of maintenance is important, and the ability to combine large decorative formats and different thickness, reducing the number of joint surfaces.





COLOR CHART

Newstar has created a wide range of colors and textures, able to satisfy any decorative need by combining materials with different furniture and environments.

It highlights references with BIO resins, which colors and textures that enhance the decorative qualities of natural stones, with a mineral streaks depth effect very difficult to overcome.



Pure colors such as Absolute Blanc, cool colors and flashy as Passion and the new TREND Collection, expressed the most innovative trends in color, exponentially increasing the range decorative capacity: easy to combine with each other and with all the furniture, colors, tones and textures.

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NQ1001R



NQ1002R



NQ1004R



NQ2001RT



NQ3073Y



NQ3074Y



NQ3075Y



NQ3076Y



NQ3077Y



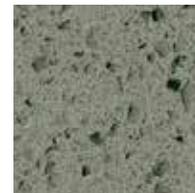
NQ5009X



NQ5011X



NQ5012R



NQ1003R



NQ5015R



NQ6008W



NQ5055YT



NQ6022R



NQ5055X



NQ5054Y



NQ5060Y



NQ5017R



NQ2002R



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NQ2005X



NQ2006R



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NQ2010R



NQ2011X



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NQ2034W



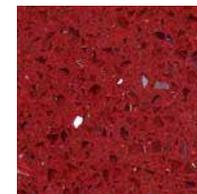
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NQ5051Y



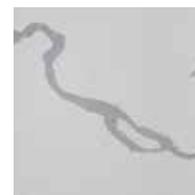
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NQ3078Y







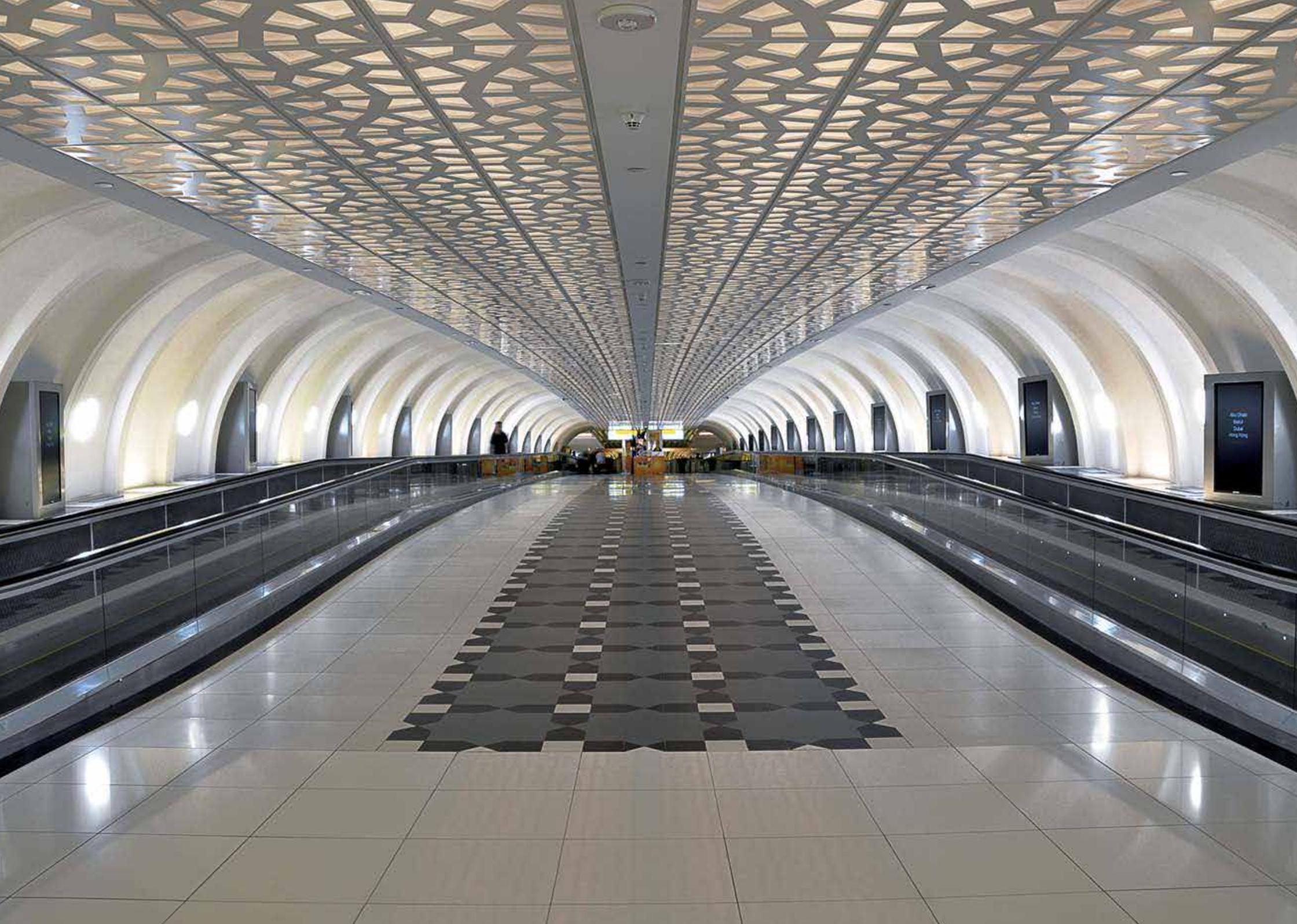






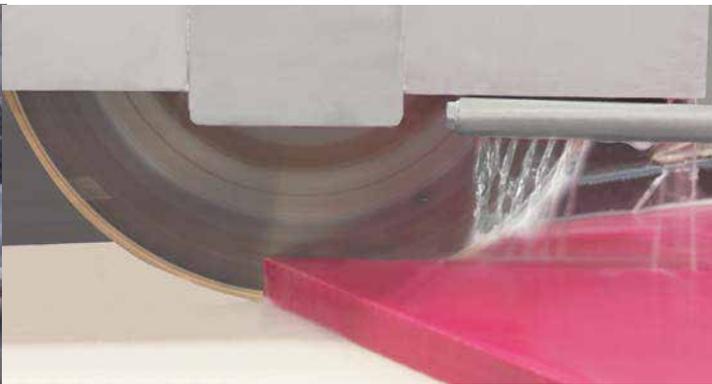








7 TECHNICAL DATA



Comparative technical table with any other materials

Technological Newstar quartz is an engineered quartz surface that looks, feels and weights like natural granite and marble. Yet its strength, hardness and competitive price position it as the superior choice over natural stone, ceramics or plastic solid surfaces. It represents aesthetics, cohesion, reliability and cleanness.

	Newstar quartz	Solid Surface	Laminates	Granite	Ceramic Tile
Scratch Resistant	YES	No	No	Yes	Some
Stain Resistant	YES	Yes	No	No	Yes
Heat/Burn Resistant	YES	No	No	Yes	Yes
Mold/Mildew Resistant	YES	Yes	No	No	Yes
Long Warranty	YES	Yes	No	No	No

DATASHEET

CHARACTERISTICS	TESTING METHOD	UNITS	TYPICAL VALUES						
			1	2	3	4	5	6	BIO
FIRE REACTION (EUROCLASSES)	EUROCLASSES UNE-EN-ISO 9239-1:2002 and ISO 1716:2002	EUROCLASSES	A2fl s1						
THERMAL EXPANSION COEFFICIENT	UNE EN 14617-11: 2006 Test method for agglomerated stone. Determination of thermal expansion coefficient	☒C - 1	31.0 x 10 ⁶	34.0 x 10 ⁻⁶	23.8 x 10 ⁻⁶	38.0 x 10 ⁻⁶	31.0 x 10 ⁶	28,6 x 10 ⁻⁶	29.0 x 10 ⁻⁶
FLEXURAL RESISTANCE	UNE EN 14617-2: 2005 Agglomerated stone. Test method for agglomerated stone. Determination of flexural resistance	MPa	40 - 44	54	33	89	53	33	64.1 - 90
IMPACT RESISTANCE	UNE EN 14617-9:2005. Test method for agglomerated stone. Determination of impact resistance	J	9 - 11	12 - 15	7	>16	>12	5	> 15
SLIP RESISTANCE	UNE EN 14231: 2004 Test method for natural stone. Determination of slip resistance using friction pendulum	USRV	5 wet 40-50 dry	5 wet 42 dry	7 wet 69 dry	5 wet 42 dry	7 wet 58 dry	6 wet 52 dry	7 wet 40 dry
WATER ABSORPTION	UNE EN 14617-1: 2005 Test method for agglomerated stone. Determination of water absorption and apparent density	%	0.076 - 0.089	0.073 - 0.102	0.144	0.07	0.084	0.06	0.07
COMPRESSION RESISTANCE	UNE EN 14617-15:2005 Test method for agglomerated stone. Determination of compression resistance	MPa	260	263	275	265	270	151	229
APPARENT DENSITY	UNE EN 14617-1: 2005 Test method for agglomerated stone. Determination of water absorption and apparent density	kg/m ³	2400	2300	2266	2102	2409	2460	2120 - 2450
ABRASION RESISTANCE	UNE EN 14617-4: 2005 Test method for natural stone. Determination of abrasion resistance	mm	25	28.5	27.5	31.0	25.0	27.5	27 - 33
CHEMICAL RESISTANCE	UNE EN 14617-10: 2005 Test method for agglomerated stone. Determination of chemical resistance	C4	C4 Alkalis: Materials maintaining at least 80% of their resistance reference value after 8 hours. Surface hardness						
SURFACE HARDNESS	UNI EN 101 Ceramic tiles. Determination of scratch hardness of surface according to MOHS	MOHS	6-7						6 - 7

The values shown on this data sheet are typical values only, and therefore not legally binding. For further information, please contact our Technical Department.

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Recommendations for care and maintenance.

For periodical maintenance of Newstar Technological Quartz materials, due to their exceptional physical and chemical characteristics, it is only needed a regular cleaning with a neutral pH product soap/detergent, rinse with water and dry with a dry microfiber cloth or absorbent paper towel. To eliminate any remains or residues, (Eg. oil or fat, wine, vinegar, lemon, soft drinks, coffee, etc.) from the Newstar Technological Quartz surface, just wipe with a damp cloth impregnate with neutral pH detergent, rinse with water and dry it.

As follows we will describe some simple treatment for the most common problems:

- Fat stains: dilute a small amount of detergent in some water and rub over the stain using a cloth. Next, rinse it off with water.
- Water lime marks: pour some vinegar (or any other diluted weak acid such as hydrochloric acid) directly on the surface to be treated. Rinse it off with plenty of water.
- Silicone stains: Scrape off using a blade and use a little solvent for any remains left behind (ethanol).

BASIC TECHNICAL SPECIFICATION – MAINTENANCE TIPS

- Do not fit Newstar Technological Quartz outside or in places where UV ray lamps are fitted (in places subject to intense solar radiation or UV lamps).
- Do not place objects recently removed from heat on Newstar Technological Quartz surfaces on a regular basis (frying pans, etc.).
- Do not use water repellents or sealers to enhance the shine.
- Do not use strippers, caustic soda, degreasers or products with pH in excess of 10 or chlorine based products. Do not use products that contain hydrofluoric acid or dichloromethane. If you use bleach or solvent, you must rinse it off using water and never leave it long-time in contact with the surface.
- Newstar Technological Quartz should not be polished, either on flooring or work surfaces.
- Aisle the countertop from external heat sources.

PRECAUTION



CLEANING NEWSTAR TECHNOLOGICAL QUARTZ POLISHED

Due to their unique physical and mechanical properties and their zero porosity, quartz countertops with polished finish (gloss) , only need simple cleaning. You can use any multisurfaces cleaning product with neutral pH, not more than 10, available at any supermarket . You can also use specific products for cleaning the hob.

In all cases, for best results use a microfiber cloth good quality.

Removing stains from the dishwasher.

The common dishwashing detergents may form a shiny coat on the satin counter, causing stains. These residues can only be removed using products with low ammonia concentration: apply them on the surface and leave them for a few minutes. Then rub it gently with a soft brush and rinse with plenty of water. Finally dry with a soft cloth or kitchen paper.

Removing marker, food colors and fruit stains.

Pen stains can be cleaned with a little alcohol. The food coloring and fruit disappear with diluted bleach solution.

Removing dry spots caused by hard water.

Generally you can remove them with vinegar dissolved in water and a soft cloth. For removing dry water spots, use warm water and vinegar, leaving a few minutes to soften the stain, then rub gently with a cloth until it disappears, rinse it with water and dry.

NOT USE!

Besides those previously mentioned, highly alkaline products or chlorine based, such as oven cleaner or solvents, are not suitable for cleaning Newstar quartz countertops. Neither should use corrosives, strippers, hydrofluoric acid, caustic soda, or products with a pH above 10. Furniture waxes and oil soaps or degreasing are not indicated, as they can change the brightness of the surface.

CLEANING THE COUNTERTOPS WITH OTHER FINISHES

These surfaces require more care and maintenance as they are much more sensitive to everyday life stains.



Tel : +86.152 6087 3309

Mail : info@benyeequartz.com kob@newstarchina.com

Factory Address: PU'AN industry zone ,Quangang area,Quanzhou city, Fujian Province China