

# STONETium<sup>®</sup>

The world of stones

# What is Granite ?

Granite is a fascinating mineral that was formed by the gradual crystallisation of lava deep within the Earth's crust. Its composition consists primarily of quartz, feldspar, and mica, giving it a distinct granular texture. Granite is formed when magma settles over millions of years, allowing mineral crystals to grow and develop, resulting in its characteristic coarse-grained texture.

Variables such as the depth of magma intrusion, the size of the granite body, and the cooling rate of the magma can affect the length of time required for granite formation. It is a remarkable process that illustrates how sluggish and dynamic geological forces shape our planet.

The diverse mineral compositions and geological processes that contributed to granite's formation account for its entrancing spectrum of hues. For instance, the presence of orthoclase feldspar contributes to hues of red, pink, and brown, whereas a large quartz content results in lighter hues such as white and cream. Black granite is composed of dark-coloured minerals such as biotite or hornblende, while green granite contains amphiboles or green mica. Iron-containing minerals, such as hematite or pyrite, can give granite golden or yellow tints.

Different minerals combine to create the multicoloured or veined appearance of some granite stones. Each unique combination, in addition to the geological conditions present during the formation of granite, contributes to the diverse array of colours and patterns found in this magnificent natural stone. This incredible versatility makes granite a highly desirable material for a variety of applications, lending timeless beauty and elegance to any setting.



## Granite Quarry Identification and Block Selection

Highlighted for further processing are specific blocks that meet the high-quality standards. The items are labelled with specific information about their dimensions, quality, and other relevant details. The blocks are then transported to the processing units for the next stage of granite cutting.

Once the blocks reach the processing units, they undergo another rigorous quality inspection. Skilled manpower meticulously inspects each block to ensure it meets the strictest requirements of quality. Only the highest quality blocks are chosen for further cutting and finishing, while those with defects or flaws are set aside

# Granite Cutting

Granite cutting plays a vital role in the overall granite processing procedure. The process includes the initial shaping of the raw granite blocks using specialised cutting equipment, like a diamond blade or a diamond wire saw.

When it comes to granite cutting, professionals often rely on either a circular diamond blade or a diamond wire saw. These cutting tools are designed with industrial-grade diamonds, known for their exceptional hardness and ability to efficiently cut through even the toughest granite.

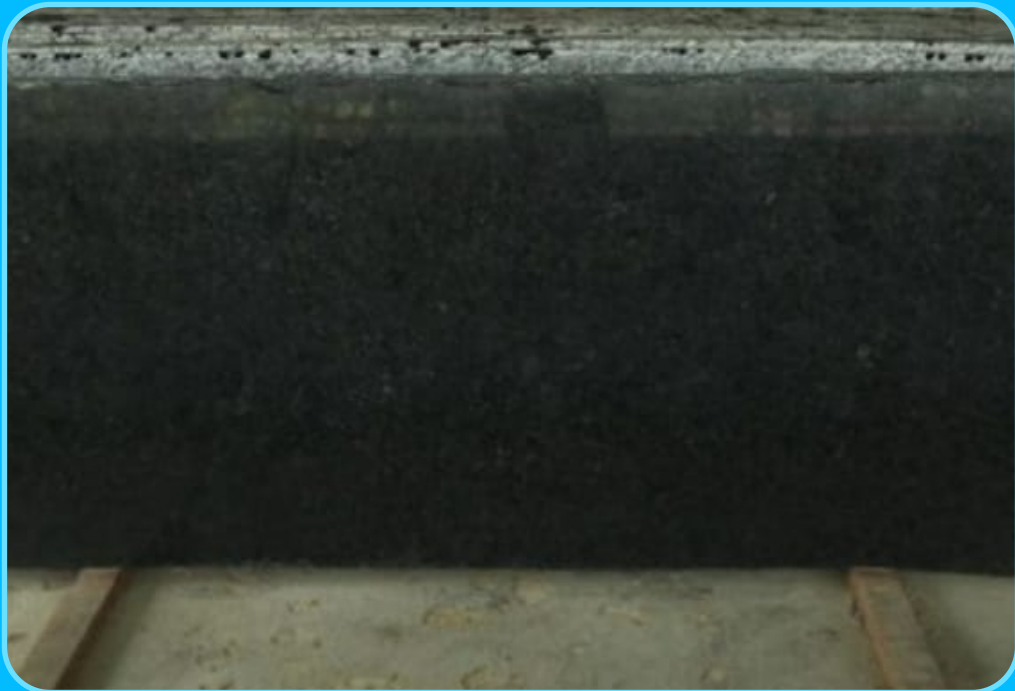
# Grinding, Granite Resining, and Polishing

Following the initial cutting process, the granite slabs are subjected to surface finishing to attain the desired texture and appearance. Various techniques can be used to enhance the natural beauty of the stone, such as polishing, honing, flaming, or brushing.

During the finishing process of granite slabs, epoxy resin is commonly applied to the surface, a procedure known as the granite resining process. This phase is particularly important for granite types with natural fissures, cracks, or voids. The epoxy fills in these flaws, strengthening and increasing the durability of the stone. In addition, the application of epoxy facilitates the creation of a smooth and immaculate surface before the final polishing stage. We use the highest-quality and most reliable epoxy to ensure the best results.

# Shaping and Edging

For different purposes, the granite slabs might go through extra shaping and edging procedures to achieve precise measurements and design. Part of the process may include cutting the slabs into smaller pieces, shaping them into tiles or countertops, and edging them for a smooth finish.



















































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