Material requirements for granite accessories

Granite accessories are widely used in precision measurement and machining because of their high hardness, wear resistance and stability. The following are the main requirements for granite accessories:

1. Material characteristics

High hardness: high granite hardness, usually in the Mohs hardness of 6-7 grade, strong wear resistance.

Low thermal expansion coefficient: low thermal expansion coefficient, small influence by temperature change, suitable for high precision environment.

Stability: physical and chemical stability, not easy to deformation or corrosion.

Uniformity: uniform material, no cracks, pores and other defects.

2. Processing accuracy

High flatness: the surface flatness requirement is high, usually the error is in the micron level.

Accurate size: high dimensional accuracy, in line with the design requirements, to ensure the assembly and use accuracy.

Smooth surface: the surface should be smooth to reduce friction and wear.

3. Appearance requirements

No defects: no surface cracks, pores, impurities and other defects.

Uniform color: uniform color, no obvious color difference.

4. Physical properties

Density: high density, dense structure, improve wear resistance and compressive strength.

Compressive strength: high compressive strength, can withstand large pressure without deformation or rupture.

5. Chemical properties

Corrosion resistance: acid and alkali corrosion resistance, suitable for a variety of environments.

Antioxidant: strong antioxidant, long-term use is not easy to aging.

6. Environmental adaptability

Temperature adaptability: can maintain stable performance in a wide temperature range.

Humidity adaptability: it can be kept stable in different humidity environment, not easy to hygroscopic deformation.

sum up Granite accessories material should have high hardness, low thermal expansion coefficient, high stability and uniformity, and require high processing accuracy, no appearance defects, excellent physical and chemical performance, and good environmental adaptability. These requirements ensure its high precision and long life in precision measurements and machining.

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