Mitutoyo

Gauge block set Ceramic, tolerance class 1, Number of gauge blocks: 47



Order data

| Order number | 481310 47 |
|--------------|---------------|
| GTIN | 4946368220123 |
| Item class | 44A |

Description

Version:

Made of ultra-pure ceramic zirconium dioxide (ZrO₂) manufactured in a sintering process.

- · Hardness: With approx. 1350 HV about twice as hard as steel.
- Tensile strength: Up to approx. 70 % of the flexural strength of steel. Insensitive to shock and impact.
- Wear resistance: Lasts about 10 times longer than steel. No burr formation. No plastic deformation. Scratches and small defects have no influence on the measured result. The surface remains slip capable longer than steel.
- Handling / care: Highly resistant to alkalis, acids, oil, and grinding water. No need for time-intensive degreasing before use and re-greasing after use which is required for steel. Low weight is an advantage for large sizes.
- Temperature characteristics: Coefficient of expansion (9.5 \pm 1.0) 10^{-6} K⁻¹ similar to that of steel. Low thermal conductivity.
- · Anti-magnetic: Cannot be magnetised.
- · Slip capability: The homogeneous, high density structure gives optimum holding, even to steel, and easy slip capability. Galling is excluded.
- Test certificate: Each gauge block is provided with its own unique identity number. The actual deviation from the nominal dimensions is recorded in the test certificate. The absolute actual dimension is therefore known. Manufacturer's test certificate traceable back to national standards.

Application:

Tolerance class 1 as working and adjusting master for gauge checking. For inspection rooms. **Content:**

1 pc. each of size: 1.005; 20; 30; 40; 50; 60; 70; 80; 90; 100 mm

Graduation 0.01: 21 pcs. 1.00 – 1.20 mm Graduation 0.1: 8 pcs. 1.3 – 2.0 mm Graduation 1.0: 8 pcs. 3 – 10 mm

Technical description

| Number of gauge blocks | 47 |
|------------------------|--|
| Standard | DIN EN ISO 3650 |
| Tolerance class | 1 |
| Hardness | 1350 HV |
| Material | Zirconium Oxide (ZrO2) ceramic material |
| Test certificate | Manufacturer's test certificate |
| Packaging | sturdy box |
| Calibration | S17 |
| Type of product | Parallel gauge block set |

Services

| Calibration Gauge block set, steel / ceramic Set contents 47 | 018041 47 |
|---|-----------|
| DAkkS calibration Gauge block set, ceramic Set contents 47 | 019760 47 |
| Labelling laser-etched Type | 018940 |
| Calibration Gauge block set, steel / ceramic Set contents 47 | 020850 47 |
| DAkkS calibration Gauge block set, ceramic Set contents 47 | 020870 47 |