



GRINDOMETERS – FINENESS OF GRIND GAUGES VF2104, VF2105, VF2106, DATASHEET VF2107, VF2108, VF2110, VF2111, VF2112, VF2113, VF2118, VF2124, VF2120, VF2121, VF2122, VF2123

PRODUCT DESCRIPTION

Precision instrument to determine particle size and fineness of many materials like paints, lacquers, pigments, filler, chocolate etc..

TQC Grindometers are available in three models:

- Double grooves with graded slopes graduated in different parameters: Microns, NS (Hegman) and PCU (North)
- Single wide groove with parameters: Microns and Hegman.
- Single groove with only Microns.

Gauge and bevelled scraper are made of Sub Zero Vacuum hardened medical grade stainless tool steel and have an accuracy of 2 μ m.

BUSINESS

Food industry, laboratory, pharmaceutical industry

STANDARDS

Check the appropriate standard for a correct execution of the test. ASTM D1210, ASTM D1316, DIN 53203, DIN EN ISO NF21524, FTMS 141 a M.4411.1 ISO1524, NFT 30 046

FEATURES

- Precision instrument
- Ergonomic shaped scraper, for an easy grip.
- Made of through hardened stainless steel
- Many models available

SCOPE OF SUPPLY

- Pouch
- Grindometer
- Scraper
- Manual

ORDERING INFORMATION

VF2110 Grindometer Din- ISO 0-15μm, double groove VF2111 Grindometer Din- ISO 0-25μm, double groove VF2112 Grindometer Din- ISO 0-50μm, double groove VF2113 Grindometer Din- ISO 0-100μm, double groove VF2118 Grindometer Din- ISO 0-250μm, double groove

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VF2124 Grindometer Din- ISO 0-500μm, double groove
VF2104 Grindometer Din- ISO 0-15μm, single groove
VF2105 Grindometer Din- ISO 0-25μm, single groove
VF2106 Grindometer Din- ISO 0-50μm, single groove
VF2107 Grindometer Din- ISO 0-100μm, single groove
VF2108 Grindometer Din- ISO 0-250μm, single groove
VF2120 Grindometer Din- ISO 0-15μm, wide groove
VF2121 Grindometer Din- ISO 0-25μm, wide groove
VF2122 Grindometer Din- ISO 0-25μm, wide groove
VF2123 Grindometer Din- ISO 0-100μm, wide groove

SPECIFICATIONS

All models come with a base and a scraper.

Base : ASAB Stavax ESR medical grade stainless tool steel. Sub Zero Vacuum hardened (+1756°C to -70°C), hardness HRC 55 (through hardened*) Surface treatment: polished Overall accuracy: $\pm 2 \ \mu m$ 175 x 60 x 12mm with 120mm groove length

Scraper:

ASAB Stavax ESR medical grade stainless tool steel. Sub Zero Vacuum hardened (+1756°C to -70°C), hardness HRC 55 (through hardened*) and tempered. Surface treatment: black chromed

Overall straightness: ± 2 μm 75 x 38 x 8mm

*Through hardening versus Case-hardening or surface hardening

Through-hardening means the metal uniformly is hardened throughout the piece. Case- or surface (face / frame) hardening only hardens the top layer of the metal. Once the top layer is degraded excessive wear and tear will occur on the product limiting its life time and affecting accuracy.

Double groove models:

VF2110

TQC Grindometer Din-ISORange:0-15 micron, 10-8,5 PCU, 8-6,8 HegmanGraduation:1,5 micronGroove:Double, 2 x 12 mm

VF2111

TQC Grindometer Din- ISORange:0-25 micron, 10-7,5 PCU, (north), 8-6 Hegman (NS)Graduation:2,5 micronGroove:Double, 2 x 12 mm

VF2112

TQC Grindome	ter Din- ISO
Range:	0-50 Micron, 10-5 PCU, (north), 8-4 Hegman (NS)
Graduation:	5 micron
Groove:	Double, 2 x 12 mm

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VF2113

TQC Grindometer Din- ISORange:0-100 Micron, 10-0 PCU, (north), 8-0 Hegman (NS)Graduation:10 micronGroove:Double, 2 x 12 mm

VF2118

TQC Grindometer Din-ISORange:0-250 Micron, 10-0 PCU, (north), 8-0 Hegman (NS)Graduation:25 micronGroove:Double, 2 x 12 mm

VF2124

TQC Grindometer Din-ISORange:0-500 Micron, 10-0 PCU, (north), 8-0 Hegman (NS)Graduation:50 micronGroove:Double, 2 x 12 mm

Single groove models

VF2104

TQC Grindometer DIN-ISORange:0-15 micronGraduation:1,5 μm (micron)Groove:Single, 12 mm

VF2105

TQC Grindometer DIN-ISORange:0-25 μm micronGraduation:2.5 micronGroove:Single, 12 mm

VF2106

TQC Grindometer DIN-ISORange:0-50 μm micronGraduation:5 micronGroove:Single, 12 mm

VF2107

TQC Grindometer DIN-ISORange:0-100 micronGraduation:10 micronGroove:Single, 12 mm

VF2108

TQC Grindometer DIN-ISORange:0-250 micronGraduation:25 micronGroove:Single, 12 mm

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Wide groove models

VF2120 TQC Grindometer DIN-ISO Range: 0-15 μm (micron), 8-6.8 NS (Hegman) Graduation: 1.5 μm (micron) Groove: Wide, 37 mm

VF2121

TQC Grindometer DIN-ISORange:0-25 μm (micron), 8-6 NS (Hegman)Graduation:2.5 μm (micron)Groove:Wide, 37mm

VF2122

TQC Grindome	eter DIN-ISO
Range:	0-50 μm (micron), 8-4 NS (Hegman)
Graduation:	5 μm (micron)
Groove:	Wide, 37mm

VF2123

TQC Grindometer DIN-ISORange:0-100 μm (micron), 8-0 NS (Hegman)Graduation:10 μm (micron)Groove:Wide, 37mm

USE

- Place the gauge on a flat surface. Place a suitable amount of the material in the deep end of each groove.
- Place the scraper behind the deepest groove.
- Pull the scraper along the length of the gauge at a constant speed and apply sufficient downward pressure to clean excess material from the edges of the gauge.
- Asses the drawn out material within the next 3 seconds. Find a band across the grooves of 3mm wide which contains 5 to 10 particles of the material. Read the position of the upper limit of this band on the scale and record this value.

SPECIAL CARE

- Always clean the instrument after use with a suitable solvent.
- Never clean the instrument by any mechanical means such as a wire brush or abrasive paper. This may cause, just like the use of aggressive cleaning agents, permanent damage.
- The instruments have to be protected from rust when it is not in use. Rust can appear on the instrument when it is used only occasionally and when it is been handled by a user with sweaty hands.
- Always dry the instrument and scraper after use to protect against rust, and apply a thin layer of oil to the surface of the instrument and scraper before storage.
- Always store the instrument in its pouch when not in use.
- Check regularly whether the gauge and the scraper are worn or damaged.
- Always dry the instrument and scraper after use to protect against rust, and apply a thin layer of preservation oil to the surface of the instrument and scraper before storage.

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DISCLAIMER

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