



Calibration standards for contact stylus instruments

Corresponding to PTB-measurement standards

Roughness measurement standards, line of products KNT 4070/03 (super-fine roughness profile), style s.b. **)

The measurement standards indicated in the following list are **calibrated**, i.e. the roughness parameter have been defined.

Determination by.....(see below). Calibration certificate are issued.

No.	Designation	Class	Grade	nominal values		s*)	Item-Number	Price /	Delivery time	Remark
				Ra nm	Rz nm	≤ %		piece EUR		
1	Calibration: Physikalisch-Technische Bundesanstalt (PTB) °)							Item-No.-ending:/PK		
2	Roughn. meas. standard	A	1	25	150	4	4070/03A1/PK	upon request	conform. ISO 5436	
3	Roughn. meas. standard	A	2	60	350	4	4070/03A2/PK	upon request	conform. ISO 5436	
4	Roughn. meas. standard	A	3	80	450	4	4070/03A3/PK	upon request	conform. ISO 5436	
5	Roughn. m. stand. set	existing of run. no. 2-4					4070/03AS/PK	upon request	conform. ISO 5436	
6	Calibration: DAkkS-accredited calibration laboratory							Item-No.-ending:/DK		
7	Roughn. meas. standard	A	1	25	150	4	4070/03A1/DK	upon request	conform. ISO 5436	
8	Roughn. meas. standard	A	2	60	350	4	4070/03A2/DK	upon request	conform. ISO 5436	
9	Roughn. meas. standard	A	3	80	450	4	4070/03A3/DK	upon request	conform. ISO 5436	
10	Roughn. m. stand. set	existing of run. no 7-9					4070/03AS/DK	upon request	conform. ISO 5436	
11	Calibration: HALLE in-house calibration ^{ooo)}							Item-No.-ending:/HK		
12	Roughn. meas. standard	A	1	25	150	4	4070/03A1/HK	upon request	conform. ISO 5436	
13	Roughn. meas. standard	A	2	60	350	4	4070/03A2/HK	upon request	conform. ISO 5436	
14	Roughn. meas. standard	A	3	80	450	4	4070/03A3/HK	upon request	conform. ISO 5436	
15	Roughn. m. stand. set	existing of run. no 12-14					4070/03AS/HK	upon request	conform. ISO 5436	

The measurement standards indicated in the following list are **not calibrated**.

The measurement standards are calibrated by the customer.

No.	Designation	Class	Grade	nominal values		s*)	Item-Number	Price / piece EUR	Delivery time	Remark
				Ra nm	Rz nm	≤ %				
16	Calibration: without °°°°)							Item-No.-ending:/oK		
17	Roughn. meas. standard	A	1	25	150	4	4070/03A1/oK	upon request	conform. ISO 5436	
18	Roughn. meas. standard	A	2	60	350	4	4070/03A2/oK	upon request	conform. ISO 5436	
19	Roughn. meas. standard	A	3	80	450	4	4070/03A3/oK	upon request	conform. ISO 5436	
20	Roughn. m. stand. set	existing of run. no 17-19					4070/03AS/oK	upon request	conform. ISO 5436	

*) s: Standard deviation from n measurements on the marked measuring surface
(value for n see "technical data", Page No.: 6.6)

**) Design: 40 x 20 x 11,3 mm. Rectangular measurement surface, 5 x 9 mm

°) Prices contain: Measured values for Ra, Rz, Rmax acc. to ISO 4287, **with** or **without** bandwidth limitation (Lambda s), (**please inquire**) and Rk-parameter (ISO 13565-2)

ooo) Prices contain: Measured values for Ra, Rz, Rmax acc. to ISO 4287

No DAkkS calibration. Nevertheless, the measured values of the calibration have access to the PTB, Braunschweig.

oooo) The roughness measurands ascertained by the factory acceptance are investigated with a reference-surface tracer and listed in an acceptance report.

The price are to be understood excluding freight and insurance if not otherwise agreed upon.

Relevant delivery times upon request.

For more detailed technical description please refer to "Technical Data", pages 2.0, 6.1 and 6.6.

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