



Calibration standards for contact stylus instruments

Corresponding to PTB-measurement standards

Roughness measurement standards, line of products KNT 4058/02 (for sheet metal surfaces)The measurement standards indicated in the following list are **calibrated**, i.e. the roughness paramet. have been defined.

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

No.	Designation	Class	Grade	nominal values		s*)	Item-Number	Price / piece EUR	Delivery time	Remark
				Ra µm	Rz µm	≤ %				
1	Calibration: Physikalisch-Technische Bundesanstalt (PTB) ^{°)}									
2										
3										
4										
5										
6										
7	Calibration: DAkkS-accredited calibration laboratory						Item-No.-ending:/DK			
8	Roughn. meas. standard	A	1	~ 0,6	3,5	3	4058/02A1/DK	upon request		according to DIN EN 10049 ***)
9	Roughn. meas. standard	A	2	1,25	6,1	3	4058/02A2/DK	upon request		according to DIN EN 10049 **)
10	Roughn. meas. standard	A	3	1,9	9,0	3	4058/02A3/DK	upon request		according to DIN EN 10049 **)
11										
12										

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 µm	Rz µm	≤ %				
13	Calibration: without ^{°°°)}							Item-No.-ending:/oK		
14	Roughn. meas. standard	A	1	~ 0,6	3,5	3	4058/02A1/oK	upon request		according to DIN EN 10049 ***)
15	Roughn. meas. standard	A	2	1,25	6,1	3	4058/02A2/oK	upon request		according to DIN EN 10049 **)
16	Roughn. meas. standard	A	3	1,9	9,0	3	4058/02A3/oK	upon request		according to DIN EN 10049 **)
17										
18	Note: Class B + C are cancelled									
19										
20										
21										

*) s: Standard deviation from n measurements on the marked measuring surface

(Value for n see "technical data", Page No.: 4.2: metering point plan of PTB-Calibration)

**) Steel-iron-test sheet (SEP) No. 1940, Edition 1998

°) Prices contain: Measured values for Ra, Rz, RPc acc. to ISO 10049, with bandwidth limitation (Lambda s)

***) Calibration of the RPc values for this profile currently not possible

°°°) The roughness measurement categories ascertained by the in-house acceptance become with a reference-surface tracer investigates and are performed in an acceptance report.

Attention: These measured values are not comparable with the values ascertained by 2 skid tracer.

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, 4.1 and 4.2.**

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