

Calibration Laboratory accredited by Swiss Accreditation Service SCS No 0073 Accreditation to ISO/IEC 17025



Certificate of Calibration

No. F-00094-01

Serial No.	F-00094		Type of calibration	Standard
Origin / old Serial No.	n/a		-	
Object Material Nominal diameter [mm]	507213 Kal Al2O3 30	librierkug	gel SH85 AO DK30 S WZ	2S
Order / Number	Calibration of diameter and roundness deviation 1101197			
Article No.	n/a			
Fabricant	Saphirwerk AG	, Switzerl	and	

Measures

Diameter	29.98200 mm	Measurement uncertainty U _D	0.00030 mm	
Roundness deviation equatorial Ront	0.051 µm	Measurement uncertainty URONt	0.04 µm	
Roundness deviation, other planes Ront	n/a			

References

Temperature	20° ± 0.5°C
Roundness Probe	Ruby ball Ø 2.0 mm
Filter	1-50 W/U, Gaussian
Reference ball	N-30-1-ST-02
Length measuring instrument	PM 18/002
Form measuring instrument	PM 20/001

Remarks

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n/a		
11/a		
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Date	27.01.2020	City	2555 Brügg-Biel
For the		Responsible of the	0
measurements	Auro	lab	K
	Coulos		omat



Measurement procedure and measurement conditions:

The measurement of diameter is made on a length measurement machine using mechanical probing. The indicated value was determined in comparison with the reference ball specified above. The roundness deviation (R*ON*t) was measured according to ISO 12181. It is defined as the peak to valley deviation from the least squares (LSCI) circle fitted to the measured profile.

Uncertainty of measurement:

The reported uncertainty of measurement is stated as the combined standard uncertainty multiplied by the coverage factor k = 2, which for a normal distribution corresponds to a coverage probability of approximately 95%. The measurement uncertainty contains contributions originating from the measurement standard, from the calibration method, from the environmental conditions and from the object being calibrated. The long-term characteristic of the product is not included.

Note

The reported data refer to the product as supplied.





