



NABL CC - 2102

MA/FRM/19



ULR-CC21021900000682F

TRUE COPY

MIKRONIX ASSOCIATES AURANGABAD 431 006	CALIBRATION CERTIFICATE OF A SET OF SLIP GAUGES
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Calibration Date 15-09-2019	Issue Date 15-09-2019	Certificate No. SG 2485	Page 1	No. of Pages 2
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Tested for : **M/s. NATIONAL CENTRE FOR QUALITY CALIBRATION**
House No. 4, Abhishree Corporate Park, Nr. Swagat Bungalow
BRTS, Iskcon – Ambli Road, Ambli, AHMEDABAD – 380 058

Your Ref. : As per Your Challan No. 07092019/01 Dtd. 07/09/2019

Description & Identification of Instruments : Tungsten Carbide Slip Gauge M10, Set Sr. No.3910, Grade – O,
ID NO : NCQC/M - 107, Mikronix Make.

Coefficient of Thermal Expansion : $4.7 \times 10^{-6} / ^\circ C$

Test Purpose : Measurements of Slip Gauges for their mean length at 20 ° C
to IS: 2984 of 2003

Environmental Conditions : Temperature 20.2° C

Method Used : Comparison method as per MA/PCD/18.

Major Equipments Used :
a) Tungsten Carbide Slip Gauge Set M122/1, GR 'K' Set Sr. No.1213 Calibrated at CMTI B,lore vide their Certificate No 17/53/01/352-L/3/090 Dtd. 31-05-2018 valid upto 31-05-2023.
b) Tungsten Carbide Slip Gauge Set M122/1, GR 'K' Set Sr. No. 1212 in house calibrated traceable to NPL New Delhi vide their Certificate No 301 Dtd. 23-11-2017 valid upto 23-11-2019.
c) Electronic Gauge Block Calibrator (Model: GBC 931, Mikronix make) Sr No. 00197, in house calibrated traceable to NPL New Delhi vide Certificate No. GBC -22, Dtd. 06-05-2019 valid upto 06-05-2021.

Uncertainty of measurement (AT 95% confidence level with coverage factor k =2) : $\pm 0.07 \mu m$ for 2.5 mm, 15.0 mm & 25.0 mm.
 $\pm 0.22 \mu m$ for rest of all sizes.

Note: The Calibration Results reported in this Certificate are valid at the time of and the stated condition of measurement.

This Calibration Certificate should not be re-produced except in full without written permission from Managing Partner, Mikronix Associates, Aurangabad.

CALIBRATED BY

NCQC
Valid up to 15-09-2021
Reviewed

NCQC System Certificate No. 110

TECHNICAL MANAGER

MIKRONIX ASSOCIATES

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AURANGABAD 431 006

CALIBRATION CERTIFICATE OF
A SET OF SLIP GAUGES

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15-09-2019	15-09-2019	SG 2485	2	2

CALIBRATION RESULTS

Nominal Size in mm	Centre Dev in μ m
2.5	+0.05
5.1	+0.01
7.7	-0.06
10.3	0.00
12.9	+0.03
15.0	+0.02
17.6	-0.05
20.2	+0.10
22.8	+0.06
25.0	+0.05

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