

15243

CALIBRATION REPORT INDUSTREX Calibrated Step Tablet

Carestream Health, Inc. 150 Verona Street Rochester, NY 14608 USA

Calibration Date: 2/18/2016

CALIBRATION RESULTS:

Serial Number:

Step Number	Density	Rounded Density
1	0.206	0.21
2	0.264	0.26
3	0.364	0.36
4	0.645	0.64
5	0.925	0.93
6	1.166	1.17
7	1.459	1.46
8	1.701	1.70
9	2.086	2.09
10	2.406	2.41
11	2.793	2.79
12	3.070	3.07
13	3.534	3.53
14	3.716	3.72
15	4.091	4.09
16	4.513	4.51
17	5.274	5.27
	3.214	5.27

STATEMENT OF MEASUREMENT UNCERTAINTY:

The estimated overall uncertainty (at approximately 95% confidence) of the values given in the center column above is 0.02 + 0.2% of the reported density for densities less than or equal to 4.5. For densities between 4.5 and 5.3, the estimated uncertainty is 0.05. Measurement uncertainty for densities greater than 5.3 has not been determined.

NOTES:

1. This INDUSTREX Calibrated Step Tablet is intended for use in calibration of densitometers and similar equipment used in making diffuse transmission density measurements. This step tablet has been exposed onto INDUSTREX MX125 film.

2. The densities were calibrated by a method that conforms to conditions specified for ISO Standard Visual Diffuse Transmission Density in ISO 5-2 "Photography and graphic technology - Density measurements - Part 2: Geometric conditions for transmittance density," and in ISO 5-3 "Photography and graphic technology -Density measurements - Part 3: Spectral conditions." Measurements were performed in a 3mm diameter circular area at the center of each step with the identification number facing the densitometer diffuser. Reported values apply to the measured area only. Step number 9 is indicated on the strip with reference marks.

3. The densities values reported above are traceable to NIST (the United Stated National Institute of Standards and Technology). The calibration of the measuring system has been verified using a NIST 38100C X-Ray Film Step Tablet Transmission Density Standard,

4. The life of the step tablet, and validity of the calibration, are dependent on storage and handling. The step tablet should be handled by the edges and stored in a cool, dry place where it will not be exposed to light, other radiant energy or chemical fumes. If the tablet becomes scratched or contaminated by fingerprints or chemical fumes, it should be replaced as the densities of the affected steps will have changed. We recommend that the step tablet be replaced every 2 years from the date of first use. We suggest that a second carefully stored INDUSTREX Calibrated Step Tablet be kept for use as a reference to periodically verify the densities of any tablet in regular use.

loseph M Murphy px

Joseph M Murphy, NDT Markets

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