

## Scope of Accreditation for Calibration

Accreditation No. : CALIBRATION 0156

Laboratory Status :  Permanent  Site  Temporary  Mobile

Field of Measurement	Parameter/Range/Item	Best Measurement Capability*	Standard/Technique/Method/Equipment/Remark
3. Temperature (cont.)	Liquid in glass thermometer		In-house method : CM-004 by comparison with semi-SPRT in liquid bath
	Total immersion -30 °C to 125 °C	0.16 °C	
	Partial immersion -30 °C to 50 °C > 50 °C to 125 °C	0.17 °C 0.18 °C	
4. Chemical	Volumetric flask		In-house method : CM-052 based on ASTM E 542-01
	10 ml	6.0 µl	
	25 ml	7.0 µl	
	50 ml	10 µl	
	100 ml	18 µl	
	200 ml	34 µl	
	250 ml	40 µl	
	500 ml	66 µl	
	1 000 ml	0.13 ml	
	Buret		In-house method : CM-053 based on ASTM E 542-01
	0.1 ml to 50 ml	11 µl	
	Measuring pipet		In-house method : CM-055 based on ASTM E 542-01
	0.1 ml to 1 ml	3.0 µl	
0.1 ml to 5 ml	3.0 µl		
0.1 ml to 10 ml	4.0 µl		
	0.1 ml to 25 ml	6.5 µl	

\* expressed as an uncertainty (+) which for k = 2, providing a level of confidence of approximately 95%



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4. Chemical (cont.)	Volumetric pipet		In-house method : CM-054 based on ASTM E 542-01
	1 ml	3.0 $\mu$ l	
	2 ml	3.0 $\mu$ l	
	5 ml	3.0 $\mu$ l	
	10 ml	4.5 $\mu$ l	
	15 ml	6.5 $\mu$ l	
	25 ml	7.0 $\mu$ l	In-house method : CM-056 based on ASTM E 542-01
	Cylinder		
	0.5 ml to 10 ml	4.0 $\mu$ l	
	> 10 ml to 50 ml	21 $\mu$ l	
> 50 ml to 100 ml	23 $\mu$ l		
> 100 ml to 500 ml	89 $\mu$ l		
5. Dimension	Vernier, dial, and digital caliper		In-house method : CM-001 based on JIS B 7507 : 1993
	0 mm to 300 mm	14 $\mu$ m	
	> 300 mm to 600 mm	16 $\mu$ m	
	> 600 mm to 1 000 mm	19 $\mu$ m	In-house method : CM-002 based on JIS B 7502 : 1994
	Can seam micrometer		
	0 mm to 13 mm	2.4 $\mu$ m	In-house method : CM-018 based on JIS B 7503 : 1997
	External dial and digital caliper gauge		
	0 mm to 10 mm	6.5 $\mu$ m	
> 10 mm to 80 mm	13 $\mu$ m		

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