

Laboratory Francis Klein & Co. Pvt. Ltd., Hardness Division, No. 70/1, Mission Road, Bangalore, Karnataka

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number CC-2844

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Validity 26.09.2018 to 25.09.2020

Last Amended on 12.11.2018

Sl. No.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (\pm)	Remarks
<u>MECHANICAL CALIBRATION</u>				
I. HARDNESS TESTING MACHINES				
1.	Vickers Hardness Tester* (Indirect)	HV 0.1 HV 0.2 HV 0.3 HV 0.5 HV 1 HV 3 HV 5 HV 10 HV 30	5.10 % 3.44 % 1.03 % 2.86 % 2.84 % 4.30 % 3.10 % 2.34 % 4.22 %	Using Standard Test Blocks As per IS1501(Part2) ISO 6507-02 ASTME384 ASTME92 by Indirect Method
2.	Rockwell Hardness Tester* (Indirect)	HRA HRBW HRC HREW HR15N HR30N HR15T HR30T HR15Y	0.7 HRA 0.9 HRB 0.7 HRC 0.4 HRE 1.20 HR15N 1.20 HR30N 1.20 HR15T 1.20 HR30N 0.25 HR15Y	Using Standard Test Blocks As per IS1586 ISO 6508-02 ASTM E18- 17e1, by Indirect Method
3.	Brinell Hardness Tester* (Indirect)	HBW 2.5 / 62.5 HBW 5/ 750 HBW 10/3000 HBW 2.5 /187.5	2.95 % 2.50 % 2.30 % 3.87 %	Using Standard Test Blocks As per IS1500-02 ISO 6506-02 ASTM E10 -17by Indirect Method

* Measurement Capability is expressed as an uncertainty (\pm) at a confidence probability of 95%

*Only for Site Calibration

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