



TECHNICAL STANDARD INSTRUCTION FOR BRINELL HARDNESS 2.5mm /187.5kgs (1839N) TESTING ON STEEL SPECIMEN

A Proficiency Testing Program

- A.1 Program Name: Proficiency Testing Scheme Brinell hardness 2.5mm/187.5kgf (1839N) at Room Temp.
- A.2 Program code No Mech.5
- A.3 Material Hardened and tempered alloy steel
- A.4 Test Method ASTM E10 or ISO6506-1 or IS1500
- A.5 Lab Code
- A.6 Sample code
- A.7 Program starting date
- A.8 Program closing date
- A.9 Last date of result submission
- A.10 Final result reporting date

B Sample Description

B.1 Test Specimen: One polished round specimen with 1um surface finish will be provided. The nominal dimension of the specimen is 45Φ mm and thickness 12 mm. Every specimen bears a unique Identification number that has to be mentioned in the test result reporting format sheet accordingly.

C Test Requirement

- C.1** Test is to be performed by one operator and one machine only
- C.2** Test must be performed in sequence

D Test Procedure

Unit	Minor force	Dwell time	Major force	Dwell time	Distance between indentation	Temp.	Expected range
SI	10kgf(98.07N)	2to 8s	187.5kgf(1839N)	10 to 15s	3dminimum	20 to35°C	HBW 350 to 450

E Competency

- E.1 Competent person should carry out the test and evaluate the result as routine test.
- E.2 The participant is required to submit the report for each sample as per result reporting Format with precision as mentioned
- E.3 All result will be analyzed based on Robust Algorithm A and Z score according to ISO13528-15.
- E.4 Final report includes all clauses of 4.8.2 of ISO17043-2010
- E.5 In case of loss or deterioration of PTP Specimen, please feel free to contact PT provider for replacement.
- E.6 In case of exclusion of a PT schemes by the participant side, the participant must inform PT provider and sample must be sent back.
- E.7 Collusion and falsification of your PTP result are totally forbidden. In case of suspicion of collusion or falsification, the PT Provider reserves the right to exclude the participants.

PT Co-Coordinator,

Mr. K.K. Karmakar, Deep Metallurgical Services, Mobile; 9892216539, Email: mech@deep-deep.in & deep.ptp2018@gmail.com



DEEP METALLURGICAL SERVICES

Approved Proficiency Testing Provider (Chemical & Mechanical) by NABL



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ISO 17043 - 10, PC - 1045

TEST RESULT FORMAT FOR BRINELL HARDNESS 2.5mm /187.5kgs (1839N)

F Proficiency Testing Program

- F.1 Program Name: Proficiency Testing Scheme Brinell hardness 2.5mm /187.5kgs (1839N)
 F.2 Program code No Mech.5 F.3 Lab code:
 F.4 Test Method ASTM E10 or ISO6506-1 or IS1500
 F.5 Sample code F.6 Program closing date:
 F.7 Last date of result submission: F.8 Date of result submission:

G Reporting format for BRINELL HARDNESS 2.5mm /187.5kgs (1839N)

Parameter	Unit	Precision	Reporting result
Material	Alloy steel hardened and tempered		
Method	ASTM E10, IS 1500 or ISO 6506-1	N/A	
Temperature	°C	XX	
Location 1		XXX	
Location 2		XXX	
Location 3		XXX	
Location 4		XXX	
Location 5		XXX	
Average		XXX.X	

Method

Test temperature

NABL/ISO Certificate No.

Tested by organization

Name:

Designation

Please send the complete Test Result Form (Soft & hard copy) to PTP Coordinator, Deep Metallurgical Services, 20, New Modella Industrial Estate, Padwal Nagar, Wagle Estate, Thane, Maharashtra, India, Pin-400604, Mobile- 9892216539, Email: mech@deep-ntp.in, deep.ptp2018@gmail.com