DEEP METALLURGICAL SERVICES
Approved Proficiency Testing Provider (Chemical & Mechanical) by NABL
20, New Modella Indl. Estate, Padwal Nagar, Wagle Indl. Estate, Thane - 400 604. Maharashtra, India. Tel.: (022) 2583 1530, 2081 6664
2580 6688. Mob.: 9892216539 | 8928368028 | 9920044840 E-mail : deep.ptp2018@gmail.com / mech@deep-ptp.in Web : www.deepmetlab.com
ISO 17043 - 10, PC - 1045

TECHNICAL STANDARD INSTRUCTION FOR V NOTCH CHARPY IMPACT TEST, 10X10X55mm

A Proficiency Testing Program

A.1 Program Name: Proficiency Testing Scheme CVN Charpy Impact test at Room Temp.
A.2 Program code No Mech. 2
A.3 Material Hardened and tempered alloy steel
A.4 Test Method ASTM A370 or ASTM E23 or ISO148-1 or IS 1757
A.5 Lab Code
A.6 Material Low alloy steel hardened and tempered
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 One set consisting of five machined and V notch standard charpy specimen as per following dimension is to be provided. The participant need not to carry out any further machining. All samples bear identification number. The dimension (mm) of sample is as follows:

Length	Width	Thickness	Angle notch	Ligament	Notch radius	Notch position	Angle between adjacent face	Surface roughness
55+0/-0.66	10±0.025	10±0.025	45^0±1	8±0.025	0.25± 0.025	27.5±0.42	90^0±10min	2>4<um

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
C.3 Pendulum velocity may preferably between 5 and 5.5m/sec and striker radius of 8mm

D Expected range

D.1 The Charpy impact energy is to be reported according to the SI unit. The expected Charpy Impact energy is mentioned below:

PT program	Test method	Expected impact energy, J	Pendulum velocity m/s	Striker radius	Temperature
Mech. 2	IS1757, ISO 148-1 ASTMA370 or E23	30 to 150J	Between 5 and 5.5	8mm or 2mm	23±2^{0}C

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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

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TEST RESULT FORMAT

F Proficiency Testing Program

F.1 Program Name: Proficiency Testing Scheme CVN Charpy Impact test at Room Temp.
F.2 Program code No Mech.2 F.3 Lab code
F.4 Test Method ASTM A370 or ASTM E23 or ISO148-1 or IS 1757
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 Charpy Impact ASTM A370 or ASTM E23, IS 1757 or ISO 148-1

Parameter	Sample ID No	Unit	Precision	Reporting result
Temperature		^{0}C	XX	
Sample no 1		J	XXX	
Sample no 2		J	XXX	
Sample no 3		J	XXX	
Sample no 4		J	XXX	
Sample no 5		J	XXX	
Average		J	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-ptp.in, deep.ptp2018@gmail.com