191ME133

CHARPY IMPACT TEST ON MILD STEEL

Specimen No	Average dimensions of the specimen				Initial energy of the hammer (J)	Average loss of energy Ef due to friction (J)	Total loss of energy E during transit of hammer (J)	Energy for failure of specimen = KU/ Impact Value = Ei - Ef in J
	Length L mm	Breadth B mm	Depth D mm	Depth of notch d (< C mm)				
1.	58.9	9.3	9.5	5	300	1	45	44
2	57.5	9.22	9.42	5	300	1	49	48
3	57.6	9.2	9.3	5	300	1	48	47

Average energy of failure 46.33333333

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CHARPY IMPACT TEST ON CAST IRON

Specimen Number	Average dimensions of the specimens				Initial energy of hammer (J)	Average loss of energy Ef due to fiction (J)	Total loss of energy Et during transit of hammer (J)	Energy for failure of specimen = KV/impact Value = Et - Ef in J.
	length L (mm)	Breadth B (mm)	Depth D (mm)	Depth of Notch d mm				
1.	57.3	9.62	9.82	5.3	300	1	30	29
2.	65.4	9.52	9.44	5.1	300	1	26.5	25.5
3.	58.7	9.1	9.52	5	300	1	27	26

Average Energy of failure 26.83333333