

DIN EN ISO 14556:2017-05 (E)

Metallic materials - Charpy V-notch pendulum impact test - Instrumented test method (ISO 14556:2015)

Contents		Page
European foreword		3
Foreword		4
1 Scope		5
2 Normative references		5
3 Terms and definitions		5
3.1 Characteristic values of force.....		5
3.2 Characteristic values of displacement.....		6
3.3 Characteristic values of impact energy.....		6
4 Symbols and abbreviated terms		6
5 Principle		7
6 Apparatus		8
7 Test piece		10
8 Test procedure		10
9 Expression of results		10
9.1 General.....		10
9.2 Evaluation of the force-displacement curve.....		11
9.3 Determination of the characteristic values of force.....		11
9.4 Determination of the characteristic values of displacement.....		11
9.5 Determination of the characteristic values of impact energy.....		13
10 Test report		13
Annex A (informative) Designs of instrumented strikers		15
Annex B (informative) Example of support block for the calibration of a 2 mm striker		16
Annex C (informative) Formulae for the estimation of the proportion of ductile fracture surface		17
Annex D (normative) Instrumented Charpy V-notch pendulum impact testing of miniature test pieces		18
Bibliography		24