ISO/TS 7705:2017-07 (E)

Guidelines for specifying Charpy V-notch impact prescriptions in steel specifications

Contents

Page

Foreword iv

1 Scope 1

2 Normative references 1

3 Termsanddefinitions 1

4 General features of Charpy V-notch impact test 1
4.1 Toughness testing methods in design codes and in steel specifications 1
4.2 Historical background to the Charpy V-notch impact test 1
4.3 The Charpy V-notch impact test in relation to other tests 2
4.4 Factors influencing impact properties 2
4.5 The Charpy V-notch impact test as a powerful tool for delivery control in steel specifications 3

5 Information to be gained from the impact test 3

6 Subsize test pieces 6

7 Recommendationsforspecifyingimpactstrengthrequirementsinsteelspecifications 7
7.1 Selection and preparation of samples and test pieces 7
7.1.1 Selection and preparation of samples 7
7.1.2 Cutting and machining 7
7.2 Number of test pieces to be taken per sample and specific requirements 7
7.3 Location of test pieces 7
7.4 Interpretation of test results 8

Bibliography 9