# ISO 630-6:2023-11 (E)

## Structural steels - Part 6: Technical delivery conditions for seismic-proof improved structural steels for building

## Contents

Page


Foreword ..... iv

1 Scope ..... 1

2 Normative references ..... 1

3 Termsanddefinitions ..... 1

4 Classificationanddesignation ..... 2
4.1 Classification ..... 2
4.2 Designation (grades and qualities) ..... 2

5 Information to be supplied by purchaser ..... 2
5.1 Mandatory information ..... 2
5.2 Options ..... 2

6 Requirements ..... 2
6.1 Steel-making process ..... 2
6.2 Delivery condition ..... 3
6.3 Chemical composition ..... 3
6.3.1 Heat analysis ..... 3
6.3.2 Product analysis ..... 3
6.3.3 Carbon equivalent value (CEV) or parameter crack measurement (PCM) ..... 4
6.3.4 Carbon equivalent value (CEV) or parameter crack measurement (PCM) for steel products by thermomechanical controlled process ..... 5
6.4 Mechanical properties ..... 6
6.4.1 Tensile properties ..... 6
6.4.2 Charpy V-notch impacts test ..... 6
6.4.3 Through thickness characteristics ..... 6
6.5 Surface conditions ..... 7
6.6 Internal soundness ..... 7
6.7 Dimensions, tolerances on dimensions and shape, mass ..... 8

7 Inspection ..... 9

8 Sampling -- Frequency of testing ..... 9
8.1 Verification ..... 9
8.2 Test units ..... 9
8.2.1 Tensile tests ..... 9
8.2.2 Impact tests ..... 9
8.2.3 Through-thickness characteristics test ..... 10

9 Test methods ..... 10

10 Marking ..... 10

Annex A (normative) Shapes and dimensions tolerances of H-sections ..... 11

Annex B (informative) The formula of carbon equivalent and the maximum carbon equivalent value ..... 15

Bibliography ..... 17